

Pistol Grip Drill

.4 hp/Rear Exhaust/1/4" Drill Chuck

Air Tool Manual – Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

Models: 1/4" Drill Chuck

52831 – 500 RPM
52832 – 1,000 RPM
52833 – 2,400 RPM
52834 – 3,600 RPM
52835 – 5,500 RPM
52836 – 20,000 RPM

LIMITED
LIFETIME
WARRANTY









Model 52836 Shown

FIND THE MOST CURRENT OFFERING OF SUPPORT DOCUMENTS AND ACCESSORIES AT DYNABRADE.COM

! 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 before work starts 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 statutes, ordinances and/or regulations.	
	! WARNING Respiratory protection to be used when exposed to contaminant's 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.	

! WARNING

Some dust created by grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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.

Tool Intent: Pistol Grip Drills are used for drilling holes in wood, plastics, fiberglass, laminates, hard and soft materials, ceramics, aluminum and steel.

Do Not use tool for anything other than intended applications.

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

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

Warning: Remove chuck key before turning on the tool. Side handle must be used for maximum control over torque reaction or kick-back on 500 & 1,000 RPM models.

(continued on next page)

SAFETY INSTRUCTIONS CONTINUED

Accessory Selection:

- Before mounting a drill accessory only use a drill accessory that is suitable for the RPM and drill chuck size, visually inspect for defects. Do not use defective accessories.
- Use only recommended accessories. See back page of manual and Dynabrade catalog.
- 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) 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.

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

Warning: Unexpected tool movement or breakage of inserted tool may cause injury.

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

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

Caution: Release throttle in case of an interruption of the energy supply.

Caution: Use only recommended lubricants.

- Secure inlet bushing on air tool with a wrench before attempting to install the air fitting to avoid damaging housing assembly.
- BEFORE MOUNTING A DRILL ACCESSORY, after all tool repairs and whenever a drill is issued for use, 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.

DRILL ACCESSORY MOUNTING INSTRUCTIONS

Warning: Disconnect air supply before removing inserted drill bit.

- Open chuck jaws wide enough to install drill bit. Be sure the bit shank and chuck jaws are clean. Dirt particles may prevent the drill bit from lining up properly.
- Insert the drill bit into the chuck. Center the drill bit in the chuck jaws and lift it about 1/16" off the bottom. Tighten the chuck jaws by hand to align the drill bit.
- Place the chuck key in each of the three holes in the chuck, turning it clockwise. Tighten securely.

Warning: Remove chuck key before turning the tool on.

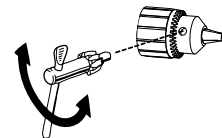
- Connect air tool to air supply. Be careful NOT to depress trigger in the process. Do not expose air tool to inlet pressure above 90 PSIG or (6.2 Bars).

Caution: After installing the drill bit, before testing or use and/or after assembling tool, the Pistol Grip Drill must be started at a reduced speed to check for good balance. Gradually increase tool speed. DO NOT USE if tool vibration is excessive. Correct cause, and retest to insure safe operation.

- To remove the drill bit, insert the chuck key into the holes in the chuck and turn counterclockwise.

Bit Selection:

- Use sharp drill bits. Sharp drill bits are less likely to bind when drilling. Use the proper drill bit for the job.
- Check the information on the drill bit's packaging for proper usage. Do not use drill bits larger than the rated capacity of the drill.



Warning: Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.

Warning: Always work with firm footing, good posture and proper lighting.

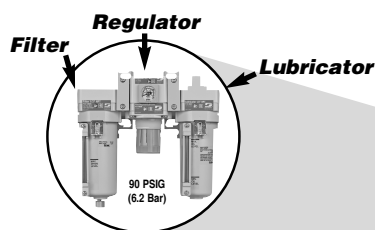
Warning: Drilling certain materials can create explosive dust. It is the employer's responsibility to notify the user of acceptable dust levels.

Caution: If the drill bit binds, the drill will suddenly react in the opposite direction of the rotation of the bit. The operator should prepare for a sudden reaction by holding the tool securely.

- Driving larger drill bits at the high speeds will increase the chance of reaction.
- Avoid drilling warped, wet, knotty, and pitchy materials if possible.
- When removing the drill bit from the tool avoid contact with the skin and use proper protective glove when grasping the drill bit. Drill bits may be hot after prolonged use.
- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris.
- A moving drill bit that snags or catches within the work piece may cause tool to stop unexpectedly or move erratically, which may cause injury.
- 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.
- Ensure that sparks and debris resulting from work do not create a hazard.
- This tool is rear exhaust. Exhaust may contain lubricants, vane material, bearing grease, and other materials flushed through the tool.
- Some materials contain chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
- Certain materials can cause sparks which can cause fires or explosions. It is the user's responsibility to make sure the work is done on spark free materials.

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

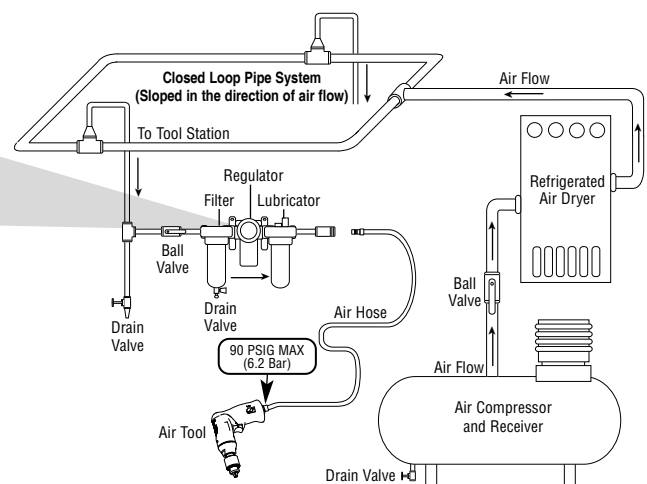
Air System



- 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. To facilitate removing moisture from air supply, the installation of a refrigerated air dryer after the compressor and the use of drain valves at each tool station is recommended.

LUBRICATOR SETTING
1 DROP/MIN.
20 SCFM



Maintenance Instructions

Important: To keep tool safe a preventative maintenance program is recommended whenever portable power tools are used. The program should include inspection of air supply lines, air line pressure, proper lubrication and repair of tools. Refer to ANSI B186.1 for additional maintenance information.

- Use only genuine Dynabrade replacement parts to insure quality. To order replacement parts, specify **Model#**, **Serial#** and **RPM** of your air tool.
- It is strongly recommended that all Dynabrade rotary vane air tools be used with a Filter-Regulator-Lubricator to minimize the possibility of misuse due to unclean air, wet air or insufficient lubrication. Dynabrade recommends the following: **10690** Air Filter-Regulator-Lubricator (FRL) – Provides accurate air pressure regulation and two stage filtration of water contaminant's.
- Grease the planetary gear assembly with the **95542** Grease by applying **2-3 plunges** with the **95541** Grease Gun after **every 50 hours** of use for maximum gear life.
- Dynabrade recommends one drop of air lube per minute for each 20 SCFM (example: if the tool specification states 40 SCFM, set the drip rate on the filter-lubricator to 2 drops per minute). Dynabrade Air Lube (P/N **95842**: 1 pt 473 ml) is recommended.

Routine Preventative Maintenance:

- Check free speed of Pistol Grip Drill using a tachometer after every service or repair.

Caution: 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.

Caution: DO NOT clean or maintain tools with chemicals that have a low flash point (example: WD-40®).

- A Motor Tune-Up Kit (P/N **96067**) is available which includes high wear and medium wear motor parts.
- Air tool laser etch information must be kept legible at all times, if not, reorder housing and replace. User is responsible for maintaining specification information i.e.: Model #, S/N, and RPM. (See Assembly Breakdown)
- Blow air supply hose out prior to initial use.
- 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.
- DO NOT carry tool by air hose, or near the trigger.
- Protect drill bits from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.
- Store accessories in protective racks or compartments to prevent damage.

Machine Specifications

Model Number	Motor hp (W)	Motor RPM	Chuck Size	Sound Level	Air Flow Rate SCFM (LPM)	Air Pressure PSIG (Bars)	Spindle Thread Size	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
52831	.4 (310)	500	1/4"	76 dB(A)	23 (651)	90 (6.2)	3/8"-24	2.4 (1.1)	6.5 (164)	5 (127)
52832	.4 (310)	1,000	1/4"	77 dB(A)	25 (708)	90 (6.2)	3/8"-24	2.4 (1.1)	6.5 (164)	5 (127)
52833	.4 (310)	2,400	1/4"	76 dB(A)	22 (623)	90 (6.2)	3/8"-24	1.8 (.8)	5.9 (149)	5 (127)
52834	.4 (310)	3,600	1/4"	76 dB(A)	23 (651)	90 (6.2)	3/8"-24	1.8 (.8)	5.9 (149)	5 (127)
52835	.4 (310)	5,500	1/4"	78 dB(A)	25 (708)	90 (6.2)	3/8"-24	1.8 (.8)	5.9 (149)	5 (127)
52836	.4 (310)	20,000	1/4"	78 dB(A)	22 (623)	90 (6.2)	3/8"-24	1.8 (.8)	5.9 (149)	5 (127)

Additional Specifications: Air Inlet Thread 1/4" NPT • Hose I.D. 3/8" or 10 mm

Sound Level is the pressure measurement according to the method outlined in ISO regulation ISO-15744.

Notice

All Dynabrade motors use the highest quality parts and materials 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	53030	1/4" Drill Chuck (Includes Key)
2	52954	Spindle Nut
3	97445	Retaining Ring
4	01139	Bearing
5	13059	Collar
6	95042	Washer
7	53163	Handle Assembly
8	52952	Nose Cover - 52833/34/35/36
	52953	Nose Cover - 52831/32
9	97922	Wave Spring
10	02698	Bearing
11	52950	Carrier - 52833/34
	52951	Carrier - 52831/32/35
12	54519	Gear (3) - 52831/33/34
	06213	Gear (3) - 52831/35
		Gear (6) - 52832
		(Includes 01033 Bearing)
13	54472	Pin (3) - 52833/34/35
		Pin (6) - 52831/32
14	97443	Retaining Ring
		52831/32/33/34/35
15	52966	Washer
16	52962	Carrier Adapter - 52831
	52963	Carrier Adapter - 52832
17	52968	Spindle Adapter - 52836
18	52969	Spacer - 52836
19	54468	Ring Gear - 52833/34/35
20	50778	Spacer - 52833/34/35
21	52949	Ring Gear - 52831/32
22	52967	Spacer - 52831/32
23	02649	Bearing
24	54551	Shim Pack (3/Pkg.)
25	02038	Front Bearing Plate
26	01479	Spacer
27	52978	Rotor - 52836
	52947	Rotor - 52831/33/34
	52948	Rotor - 52832/35
28	01480	Vane (4)
29	01476	Cylinder
30	50767	Pin
31	02673	Rear Bearing Plate
32	02696	Bearing
33	97807	O-Ring
34	01041	Grease Fitting
35	Housing Assembly	
	52841	Model - 52831
	52842	Model - 52832
	52843	Model - 52833
	52844	Model - 52834
	52845	Model - 52835
	52846	Model - 52836
		<i>Each Housing Includes 52942 Grip & 01041 Grease Fitting</i>
36	50936	Pin
37	52942	Grip
38	01696	Felt Ring (4) - 52831/32/34
		52835
		Felt Ring (2) - 52833/36
39	52958	Aspirator
40	52960	Sleeve Adapter
41	01464	Seal
42	01472	Tip Valve
43	52943	Spring
44	97444	Retaining Ring
45	52959	Inlet Adapter
		(Incl'd: 56022 Screen)
46	50784	Set Screw
47	52955	Trigger Assembly (Incl'd:
		55035, 50936 and 52957)
48	96077	O-Ring - 52833/36
49	52984	Baffle - 52833/36

[illegible]

Disassembly/Assembly Instructions – .4 hp Pistol Grip Drills

Important: The Dynabrade Pneumatic Power Tool Lifetime Warranty Policy does NOT cover normally wearable parts and products.

Before servicing this tool please contact Dynabrade Inc. or a Dynabrade Subsidiary for information regarding the Dynabrade Pneumatic Power Tool Lifetime Warranty Policy.

Notice: Special repair tooling referred to in these instructions can be ordered from Dynabrade. (See Page 6)

Disconnect tool from the air supply before servicing.

Tool Disassembly:

For All Models:

1. Use the **96453** Open-end Wrench (16 mm) and a hex key wrench secured into the jaws of the drill chuck. Remove the drill chuck turning it counterclockwise.
2. Carefully secure the tool in a vise with aluminum or bronze jaws so that the spindle is pointing up. To avoid damaging the housing, do not over tighten the vise.
3. Use an adjustable wrench to remove the **52852/52853** Nose Cover by turning it counterclockwise.
4. Use the **96453** Open-end Wrench (16 mm) and a 3/16" hex key to remove the **52954** Spindle Nut turning it counterclockwise.
5. Push the spindle out of the **01139** Bearing.
6. Use the **96232** Arbor Press and **96346** Bearing Separator (2") to remove the **02698** Bearing from the spindle.
7. Remove the **97922** Wave Spring from the nose cover.
8. Use internal retaining ring pliers to remove the **97445** Retaining Ring.
9. To remove the **01139** Bearing from the nose cover use the arbor press and the **96241** Bearing Press Tool. (Place the press tool against the inside race of the bearing.)

For Models: 52831/32/33/34/35

10. Use external retaining ring pliers to remove the **97443** Retaining Ring.
11. Use a 1/8" diameter drive punch to remove the **54472** Pin (3) and **06213** Gear (3) from the carrier spindle. **Note:** Follow similar disassembly procedure for models with double planetary gear reduction.
12. Use a 2 mm hex key to remove the **50784** Set Screw from the housing.

For All Models:

13. Use needle nose pliers to remove the spacer or ring gear.
14. Tap rim of housing against a wood block to remove the air motor.
15. Carefully secure the housing in a vise with aluminum or bronze jaws so that the air inlet is pointing up. To avoid damaging the housing, do not over tighten the vise.
16. Use a 19 mm socket and wrench to remove the inlet bushing turning it counterclockwise. Remove muffler parts.
17. Use a 3/32" diameter drive punch to remove the **50936** Pin and **52955** Trigger Assembly. Remove pin from right side of housing to left side.
18. Secure the hex portion of the air inlet bushing in a vise with aluminum or bronze jaws and use an adjustable wrench to access the valve assembly parts turning counterclockwise.

Tool Disassembly Complete:

Motor Disassembly:

1. Secure the **96346** Bearing Separator (2") around the end of the cylinder nearest the rear bearing plate. Place the separator on the table of the **96232** Arbor Press so that the front of the motor is pointing down.
2. Use a 5/32" diameter flat end drive punch as a press tool and push the rotor out of the **02696** Bearing.
3. Remove vanes from the rotor.
4. Use the arbor press and separator to remove the front bearing, plate and spacer from the rotor.
5. Remove the **02696** Bearing from the rear bearing plate with the **96210** Bearing Removal Tool and the arbor press.

Motor Disassembly Complete:

Important: Clean and inspect all parts before assembling.

Motor Assembly:

1. Install **01479** Spacer onto the rotor.
2. Install .003" thickness of shims into **02038** Front Bearing Plate. Install **02649** Bearing into the front bearing plate.
3. Use the **96240** Bearing Press Tool and arbor press to install the front bearing plate along with **02649** Bearing onto the rotor. (Place the press tool against the inside race of the bearing.)
4. Use a .001" feeler gauge to check clearance between the front of the rotor and the front bearing plate. That clearance must be .001"-.0015". If it is necessary to adjust the clearance, do this by adding or removing the appropriate shim thickness.
5. Apply Dynabrade Air Lube **95842** to the **01480** Vanes (4) and install these into the rotor slots.
6. Install the **01476** Cylinder so that the air inlet passage lines up with the air inlet holes in the rear bearing plate.
7. Use the **96242** Bearing Press Tool and arbor press to install the **02696** Bearing into the **02673** Rear Bearing Plate. (Place press tool against the outside race of the bearing.)
8. Use the **96242** Bearing Press Tool and arbor press to install the bearing/rear plate onto the rotor. (Place press tool against the inside race of the bearing.) **Important:** Carefully press the bearing/rear plate assembly onto the rotor to achieve a snug fit between the bearing plates and the cylinder.

Disassembly/Assembly Instructions – .4hp Pistol Grip Drills (Cont.)

9. A snug fit will trap the cylinder while still allowing it to be shifted from side to side with a slight amount of finger pressure. A loose fit will not achieve proper preload of the motor bearings.

Motor Assembly Complete:

Tool Assembly:

For All Models:

1. Secure the wrench flats of the **52960** Sleeve Adapter in a vise with aluminum or bronze jaws. Install the **01464** Seal, **01472** Tip Valve and the small end of **52943** Spring against the tip valve. Apply a small amount of Loctite #271 (or equivalent) to the external threads of the **52959** Inlet Adapter, and install it to the **52960** Sleeve Adapter. (Torque to 17 N•m/150 in. lbs.)
2. Use the exploded view of the muffler components for the correct order of assembly and install these onto the inlet bushing sub assembly from step 1.
Note: For drill models **52831/32/34/35** - slide **52958** Aspirator as shown and install **97444** Retaining Ring in groove closest to thick hex head. Slide (4) **01696** Felt Rings, align felt rings so that all the tabs are inline and orientated with the cutout in the handle grip. For models **52833/36** slide **52958** Aspirator as shown and install (2) **01696** Felt Rings. Slide **52984** Baffle as shown up and inside felt rings. Install **97444** Retaining Ring in groove below the **52984** Baffle. Install **96077** O-Ring into the handle at the base of the oval shape counter bore.
3. Secure the housing in a vise with aluminum or bronze jaws. Pull trigger apply a small amount of the Loctite #567 (or equivalent) to the external threads of the **52960** Sleeve Adapter and install it onto the housing. (Torque to 17 N•m/150 in. lbs.)
4. Hold the **52959** Inlet Bushing Assembly stationary with an adjustable wrench when installing the air connection fitting.
5. With the housing secured in the vise, install the **52955** Trigger Assembly. Be sure to locate the notched area of the valve stem so that the **50936** Pin will retain the trigger assembly. **Note:** Left side of housing has a slip fit to pin and right side will retain pin.
7. Install the motor assembly into the housing. Insure **97807** O-Ring is properly secured before installing motor.
8. Install the correct spacer for the specific model tool.
9. Use the **96239** Bearing Press Tool and arbor press to install the **02698** Bearing onto the spindle/carrier. (Place the press tool against the inside race of the bearing.)

For Models: 52831/32/33/34/35

10. Install planet gears and pins into the carrier(s). Use external retaining ring pliers to install the **97443** Retaining Ring.
11. Install ring gear into the housing so that the notches in the ring gear align with openings for the set screw and lubricant fitting.
Important: For Models **52831** and **52832** install the **52966** Washer (2) between the planetary carrier and motor, assemblies.
12. Apply a small amount of Loctite #567 (or equivalent) to the threads of the **50784** Set Screw and install flush with outer housing surface, Do Not over tighten.
13. Lubricate the planetary gears through the lubricant fitting. **Initially apply 3 plunges of lubricant.** (Apply 1 plunge at intervals of every 50 hours of use there after.) Order and use the recommended Dynabrade **95542** Grease and the **95541** Lubricant Gun to ensure maximum gear life.

For All Models:

14. Use the **96240** Bearing Press Tool to install the **01139** Bearing into the nose cover. (Place the press tool against the outside race of the bearing.)
15. Use internal retaining ring pliers to install the **97445** Retaining Ring into the nose cover.
16. Install the spindle/carrier adapter assembly into the nose cover.
17. Use the 16 mm crowfoot and torque wrench and a 3/16" hex key to install the **52954** Spindle Nut turning it clockwise.
(Torque to 17 N•m/150 in. lbs.)
18. Carefully secure the housing in a vise so that the motor opening is facing up. To avoid damaging the housing do not over tighten the vise.
19. Apply a small amount of Loctite #567 to the housing threads and carefully align the nose cover, spindle or planetary gear assembly(ies) with the housing and the air motor assembly turning it clockwise. Use a 26 mm crowfoot and torque wrench. (Torque to 17 N•m/150 in. lbs.)
20. Use the **96453** Open-end Wrench (16 mm) and a hex key wrench secured in the jaws. (Hand Tight)

Tool Assembly Complete:

Special Repair Tooling Referenced: *Use to remove bearings, gears, and other components.*

96210 Bearing Removal Tool

96239 Bearing Press Tool

96240 Bearing Press Tool

96241 Bearing Press Tool

96242 Bearing Press Tool

96346 (2") Bearing Separator

96232 Arbor Press

Gear Lubricant Maintenance Instructions:

Lubricate the planetary gears through the grease fitting. Apply 1 plunge at intervals of every 50 hours of use. Order and use the recommended Dynabrade **95542** Grease and the **95541** Lubricant Gun to ensure maximum gear life.

Preventative Maintenance Schedule

Pistol Grip Drill – All Models

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.

Index #	Part Number	Description	Number Required	High Wear 100%	Medium Wear 70%	Low Wear 30%	Non-Wear 10%
1	53030	1/4" Drill Chuck	1				X
2	52954	Nut	1				X
3	97445	Retaining Nut	1				X
4	01139	Bearing	1		X		
5	13059	Collar	1				X
6	95042	Washer	1			X	
7	53113	Handle	1				X
8	See pg 4	Nose Cover	1				X
9	97922	Wave Spring	1			X	
10	02698	Bearing	1		X		
11	See pg 4	Carrier	See pg 4				X
12	See pg 4	Gear	See pg 4			X	
13	See pg 4	Pin	See pg 4			X	
14	97443	Retaining Ring	1			X	
15	52966	Washer	1				X
16	See pg 4	Carrier Adapter	1				X
17	52968	Spindle Adapter	1				X
18	52969	Spacer	1				X
19	54468	Ring Gear	1			X	
20	50778	Spacer	1				X
21	52949	Ring Gear	1			X	
22	52967	Spacer	1				X
23	02649	Bearing	1		T		
24	54529	Shim Pack (3/Pkg.)	1		T		
25	02038	Front Bearing Plate	1			X	
26	01479	Spacer	1				T
27	See pg 4	Rotor	1			X	
28	01480	Vane (4/Pkg.)	1	T			
29	01476	Cylinder	1			X	
30	50767	Pin	1				T
31	02673	Rear Bearing Plate	1			X	
32	02696	Bearing	1		T		
33	97807	O-Ring	1			T	
34	01041	Grease Fitting	1			X	
35	See pg 4	Housing	1				X
36	50936	Pin	1			X	
37	52942	Grip	1			X	
38	01696	Felt Ring	See pg 4		T		
39	52958	Aspirator	1			X	
40	52960	Sleeve Adapter	1				X
41	01464	Seal	1			T	
42	01472	Tip Valve	1			T	
43	52943	Spring	1			T	
44	97444	Retaining Ring	1			X	
45	52959	Inlet Adapter	1				X
46	50784	Set Screw	1			X	
47	52955	Trigger Assembly	1			X	
48	96077	O-Ring	1			X	
49	52984	Baffle	1			X	

LEGEND

- T** Included in Tune-Up Kit
- X** Type of wear, no other comments apply.
- L** Easily lost. Care during assembly/disassembly.
- D** Easily damaged during assembly/disassembly.
- R** Replace each time tool is disassembled.



Tune-Up Kit

Part No. 96067

LIMITED LIFETIME WARRANTY

To validate Dynabrade Limited Lifetime Warranty, you must register each tool at: www.dynabrade.com. Registration of each tool at website is required. Dynabrade will not honor Limited Lifetime Warranty on unregistered tools. Please view the entire Limited Lifetime Warranty Policy at: www.dynabrade.com.

**LIMITED
LIFETIME
WARRANTY**

Optional Accessories

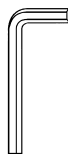
FIND THE MOST CURRENT OFFERING OF SUPPORT DOCUMENTS AND ACCESSORIES @ WWW.DYNABRADE.COM



Dynaswivel®

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

Part No. 94300 – 1/4" NPT



Hex Key

- This is used for the removal and installation of the 52954 Spindle Nut

Part No. 95049 – 3/16"



Motor Tune-Up Kit

- Includes assorted parts to help maintain and repair motor.

Part No. 96067



Open End Wrench

- This is used for removal and installation of drill chuck.

Part No. 96453 – 16 mm



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.

Part No. 95821: 4oz. (118 ml)

Part No. 95842: 1pt. (473 ml)

Part No. 95843: 1gal. (3.8 L)



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.

Part No. 95542: 10oz. Grease Tube

Part No. 95541: Push-Type Gear Oil Gun

- One-hand operation.



Bearing Removal Tool

- This tool is designed to pass through the I.D. of the bearing plate and push against the I.D. of the bearing.

Part No. 96210



Bearing Press Tool

- Use with (#2) arbor press to achieve accurate press of bearings and motor parts.

Part No. 96240

Part No. 96244

Part No. 96216

Part No. 96239



2" Bearing Separator

- Used to remove bearings, gears, and other components.

Part No. 96346

REFERENCE CONTACT INFORMATION

American National Standards Institute (ANSI)

www.ansi.org

Compressed Air & Gas Institute (CAGI)

www.cagi.org

European Committee for Standardization (PNEUROP)

www.pneurop.org

International Organization of Standards (ISO)

www.iso.org

U.S. Government Publishing Office (GPO)

www.gpo.gov

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