

3" x 24" Belt Sander

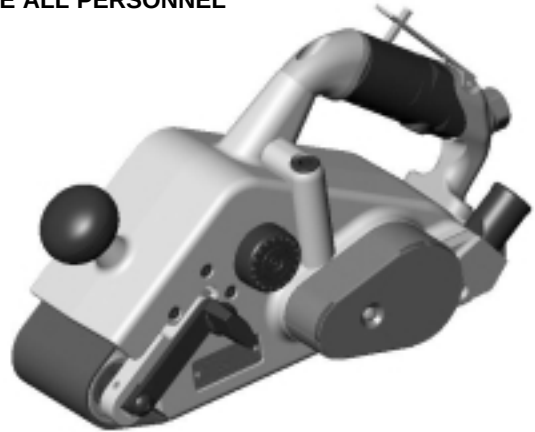
Air Tool Manual – Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

Models:

52900 – Central Vacuum

Maximum Surface Feet per Minute (SFPM) 1700 / (SMPM) 516



! 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 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: 3" x 24" Belt Sanders are ideal for removal of materials using abrasive belt accessories.

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

This power tool is not intended for use in potentially explosive atmospheres and is not insulated against contact with electrical power.

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

- Employer's Responsibility – Provide 3" x 24" Belt Sander operators with safety instructions and training for safe use of tools and accessories.

Accessory Selection:

- Abrasive/accessory RPM (speed) rating MUST be approved for AT LEAST the tool RPM rating.
- Before mounting an accessory, visually inspect for defects. Do not use defective accessories.
- Use only recommended accessories. See back page of manual and Dynabrade literature.
- 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.

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.
- BEFORE MOUNTING AN ACCESSORY, after all tool repairs and whenever a 3" x 24" Belt Sander 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.

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 connected at the air tool relieve hose of air pressure and disconnect tool from air supply when changing recommended accessories.
- Connect air tool to power source. Be careful NOT to depress throttle lever in the process.

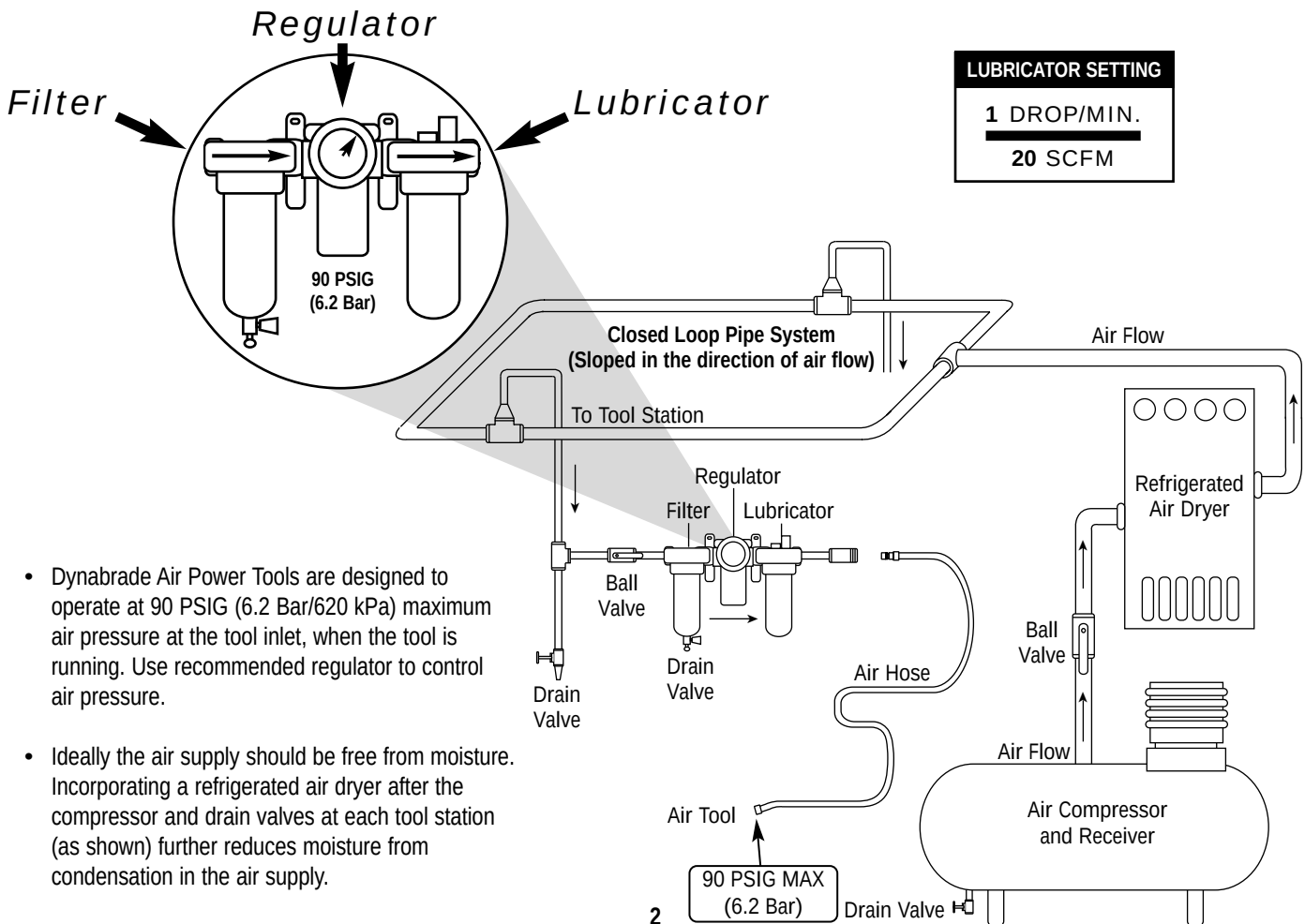
Do not expose air tool to inlet pressure above 90 PSIG or (6.2 Bars).

Caution: After installing the accessory, before testing or use and/or after reassembling tool, the 3" x 24" Belt Sander 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.

- Only use abrasive sanding belts when properly secured to the drive and idler wheels of the air sander.
- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris. Potentially explosive atmospheres can be caused by dust and fumes resulting from sanding or grinding. Always use dust extraction or suppression systems which are suitable for the material being processed.
- Proceed with caution in unfamiliar surroundings. Hidden hazards may exist, such as electricity or other utility lines.
- Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.
- Use a vise or clamping device to hold work piece firmly in place.
- Work may generate hazardous dust.
- Do not apply excessive force on tool or apply "rough" treatment to it.
- Always work with a firm footing, posture and proper lighting.
- Ensure that sparks and debris resulting from work do not create a hazard.
- This tool is side exhaust. Exhaust may contain lubricants, vane material, bearing grease, and other materials flushed thru the tool.

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

Air System



Maintenance Instructions

Important: 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: **11405** Air Filter-Regulator-Lubricator (FRL) – Provides accurate air pressure regulation and two stage filtration of water contaminants. Operates 40 SCFM @ 100 PSIG with 3/8" NPT female ports.
- **Apply 3 plunges of 95542 Grease through grease fitting located on side of angle head with 95541 Grease Gun after every 100 Hours of use.**
- 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 the free speed of 3" x 24" Belt Sander by using a tachometer on regular basis.
- 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 **98223**) 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. 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 (see Notice below).
- DO NOT carry tool by air hose, or near the tool throttle lever.
- Protect abrasive accessories 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	Belt Size Inch	Sound Level	Maximum Air Flow CFM/SCFM (LPM)	Hose I.D. Size	Air Inlet Thread	Max. SFPM SMPM	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
52900	1.3 (971)	2,700	3 x 24	88 dB(A)	8/50 (1,416)	1/2" or 15mm	3/8" NPT	1700 (516)	12.5 (5.7)	13-1/4 (337)	7-1/8 (181)

Additional Specifications: Air Pressure 90 PSIG (6.2 Bar)

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.

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.

No.	Part #	Description	No.	Part #	Description
1	96030	Screw (7)	79	95572	Bearing (2) Includ. w/31639
2	31636	Cover Plate	80	95531	Label
3	01790	Screw (17)	81	95442	Screw (2)
4	01791	Lock Washer (17)	82	31684	Spacer
5	31637	Motor Cover	83	95146	Washer
6	31638	Gasket	84	31634	Timing Belt Pinion
7	31635	1.3Hp Motor Assembly	85	31644	Washer
8	07158	Spacer	86	31633	Rotor Nut
9	97140	Screw	87	02552	Bearing
10	31639	Idle Wheel Assembly	88	01277	Shim Pack (3/pkg.)
11	95446	Washer (3)	89	31632	Front Bearing Plate
12	31640	Drive Wheel	90	52467	Spacer
13	31641	Snap Ring	91	31631	Rotor
14	02695	Bearing (3)	92	54972	Vane (5/pkg.)
15	07136	Grip	93	54976	Cylinder (Includ. 51046)
16	01089	Safety Lever	94	54977	Rear Bearing Plate
17	51937	Inlet Bushing	95	02651	Bearing
18	07142	Bushing			
19	01017	Pin			
20	31651	Handle			
21	95928	Fitting (4)			
22	07168	Valve Stem Assembly			
23	31642	Spring			
24	07147	Plug			
25	07146	Packing			
26	31677	Tubing			
27	95523	O-Ring (3)			
28	56076	Plug (2)			
29	31643	Knob			
30	97109	Screw			
31	31671	Mounting Plate			
32	31672	Valve Assembly			
33	31673	Check Valve			
34	95073	Right Angle Fitting			
35	31650	Housing			
36	02614	Bearing			
37	95555	Bearing			
38	31655	Wheel Drive Shaft			
39	31654	Key			
40	31657	Gear			
41	95159	Snap Ring			
42	01775	Pin			
43	31649	Central Vac Adapter			
44	31658	Gasket			
45	31645	Timing Belt			
46	31646	Belt Guard			
47	31678	Screw			
48	31682	Felt Muffler (2)			
49	31681	Muffler Cap			
50	31683	Muffler Flange			
51	31647	Platen			
52	31648	Platen Cover Plate			
53	31659	Shaft			
54	31653	Key			
55	31656	Pinion			
56	30356	Bearing			
57	31664	Cover Plate			
58	31660	Gear			
59	31661	Snap Ring			
60	01041	Grease Fitting			
61	31675	Snap Ring			
62	31666	Front Wheel Hub			
63	31667	Spacer			
64	31669	Shaft			
65	97049	Bolt			
66	95316	Pin			
67	31668	Tension Arm			
68	11040	Spring			
69	31670	Tracking Bar			
70	31674	Screw			
71	31685	Tracking Knob			
72	31662	Guide Shaft			
73	97805	Air Cylinder			
74	01020	O-Ring			
75	31665	Guide Block			
76	31663	Bearing (2)			
77	95311	Screw (4)			
78	31676	Tubing			

Diagram of Detail A showing a mechanical assembly. Components are labeled with callouts: 53 (a small circular part), 55 (a larger circular part), 54 (a small circular part), 11 (a small circular part), A1 (a diamond-shaped part), and G1 (a diamond-shaped part). The assembly includes a central shaft and various bearings and spacers.

Diagram of Detail B showing a mechanical assembly. Components are labeled with callouts: 61 (a small circular part), 14 (a small circular part), 62 (a small circular part), 14 (a small circular part), 64 (a small circular part), and 65 (a small circular part). The assembly includes a central shaft and various bearings and spacers.

Diagram of Detail C showing a mechanical assembly. Components are labeled with callouts: 95 (a small circular part) and 94 (a small circular part). The assembly includes a central shaft and various bearings and spacers.

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or motor. The diagram includes the following details:

- Parts and Assembly:** The assembly consists of a main housing (12), a motor unit (15), a drive shaft (13), and various internal components like bearings (14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52), seals (1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53), and fasteners (2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52).
- Assembly Instructions:**
 - SEE DETAIL A:** Points to the motor unit assembly (15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53).
 - SEE DETAIL B:** Points to the internal assembly (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53).
 - SEE DETAIL C:** Points to the main housing assembly (12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53).
- Torque Specifications:**
 - 9 N•m:** Indicated for the motor unit (15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53).
 - 17 N•m:** Indicated for the main housing (12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53).
- Other Markings:**
 - A₁, A₂, G₁, O₁:** Markings on specific parts indicating assembly points or orientations.

Disassembly/Assembly Instructions for 3"X 24" Belt Sander

Important: Manufactures warranty is void if machine is disassembled before warranty expires.

The special repair tools referred to in these instructions can be purchased from Dynabrade Inc. Please refer to the exploded view of this machine for proper part identification.

Motor Disassembly:

1. Shut the air supply and disconnect the machine from the air supply hose.
2. Release the belt tension and remove the abrasive belt.
3. Use a 2.5mm hex key to remove the **96030** Screws (2) and the **31636** Cover Plate.
4. Use a Phillips® screwdriver to remove the **31678** Screw and the **31646** Belt Guard.
5. Use a small thin flat blade screwdriver to remove the **31661** Snap Ring.
6. Remove the **31645** Timing Belt. **Important:** Carefully check the condition of the timing belt, the timing belt pinion and the timing belt gear. Also, check the condition of the related drive mechanism. Service as required.
7. Use a 5mm hex key to remove the **01790** Screws (5), the **01791** Washers (5), the **31637** Motor Cover and the **31638** Motor Gasket.
8. Carefully push/pull the motor assembly out of the **31650** Housing.
9. Fasten a 4 $\frac{5}{8}$ " bearing separator around the back portion of the **54976** Cylinder, (area closest to the **54977** Rear Bearing Plate).
10. Position the motor along with the attached bearing separator in the **96323** Arbor Press (#2) so that the **31634** Timing Belt Pinion is pointing down.
Note: Additional blocking may be required between the separator and the table of the arbor press to allow clearance for disassembling the motor.
11. Use a short flat end press tool to push the **31631** Rotor out of the **02651** Bearing.
12. Remove the **54972** Vanes (5), the **02651** Bearing, and the **07158** Spacer.
13. Hold the rotor in a vise equipped with aluminum or bronze jaws so that the timing belt pinion is pointing up.
14. Use a non-marring strap wrench to remove the timing belt pinion by turning it clockwise. (**Left Hand Thread**) Remove the **31644** Washer.
15. Use an adjustable open-end wrench to remove the **31633** Rotor Nut by turning it clockwise. (**Left Hand Thread**)
16. Remove the **31632** Front Bearing Plate, the **02552** Bearing, the **01277** Shims, and the **52467** Spacer.

Motor Disassembly Complete.

Important: Clean and inspect motor parts for wear or defect before assembling.

Motor Assembly:

1. Hold the rotor in a vise equipped with aluminum or bronze jaws so that the threaded spindle is pointing up.
2. Install the **52467** Spacer onto the rotor.
3. Install the **31632** Front Bearing Plate and the **02552** Bearing onto the rotor.
4. Install the **31633** Rotor Nut hand tight by turning it counterclockwise. (**Left Hand Thread**)
5. Check the fit between the front of the rotor and the face of the bearing plate. The clearance should be .001"-.0015" (0.3mm – 0.4mm).
Note: A .001" (0.3mm) feeler gauge can be used to check the clearance. If the fit is too loose, remove the rotor nut and select a .001" (0.3mm) thick shim from the **01277** Shim Pack. Place the .001" (0.3mm) shim in between the **02552** Bearing and the inside of the **31633** Front Bearing Plate. Install these components onto the rotor and make the rotor nut hand tight to hold them in place. Check the clearance. Repeat this process as necessary until the correct clearance is established.
6. With correct clearance established, use a 22mm crowfoot/torque wrench and tighten the **31633** Rotor Nut. (Torque to 17N·m/150 in. lbs.)
7. Position the rotor in the vise equipped with aluminum or bronze jaws so that the threaded spindle is pointing up. Install the **31644** Washer and the **31634** Timing Belt Pinion. (**Left Hand Thread**) Tighten with a non-marring strap wrench. (Torque to 17N·m/150 in. lbs.)
8. Apply the **95842** Dynabrade Air Lube (10W/NR or equivalent) to the vanes. Install vanes with the curved side toward the center of the rotor.
9. Install the **54976** Cylinder so that the line-up pin fits into the hole in the front bearing plate.
10. Install the **54977** Rear Bearing Plate and the **02651** Bearing. **Note:** Use the **96239** Bearing Press Tool so that the raised center portion is positioned against the inner race of the **02651** Bearing. Use the **96232** Arbor Press (#2) to carefully press the bearing down until it touches against the bearing seat on the inside of the rear bearing plate. This should create a snug fit between the bearing plates and the cylinder. **Note:** A "snug fit" allows the cylinder to be shifted from side to side with slight finger pressure while still trapping the cylinder so that it is not loose or sloppy between the bearing plates.
11. Apply a small amount of petroleum grease to the exposed shield of the **02552** Bearing and then install the **52467** Spacer over the timing belt pinion and washer. Position the spacer so that it is centered on the **02552** Bearing and the grease sticks it to the bearing.
12. Carefully install the motor into the **31650** Housing using the line-up pin as a guide for positioning the motor correctly in the housing.
13. Install the **31638** Gasket, and the **31637** Motor Cover with the **01790** Screws (5), and the **01791** Washers (5). Use a 5mm hex key to fasten these components. (Torque to 9N·m/80 in. lbs.)
14. Add several drops of the **95842** Dynabrade Air Lube (10W/NR or equivalent) through the air inlet fitting, connect the machine to the air supply hose, and turn on the air supply to test run the air motor.
15. Shut the air supply and disconnect the machine from the air supply hose.
16. If the air motor functions properly, install the **31645** Timing Belt and the **31661** Snap Ring. Carefully rotate the timing belt and gear mechanism by hand to check for smooth operation and proper belt tracking. **Important:** If the air motor does not function properly, disassemble and make the necessary adjustments. If the timing belt and the related drive mechanism does not function properly, disassemble and make the necessary adjustments.
17. Use a Phillips® screwdriver to install the **31678** Screw and the **31646** Belt Guard.
18. Use a 2.5mm hex key to install the **96030** Screws (2) and the **31636** Cover Plate.
19. Install the abrasive belt and apply the belt tension.
20. Add several drops of the **95842** Dynabrade Air Lube (10W/NR or equivalent) through the air inlet fitting, connect the machine to the air supply hose, and turn on the air supply.
21. With the machine off the work surface, carefully run and track the abrasive belt.

Motor Assembly Complete. Sander 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. 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 permeate motor.

Loctite® is a registered trademark of Loctite Corp.

Preventative Maintenance Schedule

For 3" x 24" Belt Sanders

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.

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.



98223 – Motor Tune-Up Kit

Index #	Part Number	Description	Number Required	High Wear 100%	Medium Wear 70%	Low Wear 30%	Non-Wear 10%
1	96030	Screw	7			L	
2	31636	Cover Plate	1				X
3	01790	Screw	17			L	
4	01791	Lock Washer	17			L	
5	31637	Motor Cover	1				X
6	31638	Gasket	1		T		
7	31635	1.3Hp Motor Assembly	1	See Note			
8	07158	Spacer	1		T		
9	97140	Screw	1				X
10	31639	Idler Wheel Assembly	1			X	
11	95446	Washer	3				X
12	31640	Drive Wheel	1			X	
13	31641	Snap Ring	1			X	
14	02695	Bearing	3			X	
15	07136	Grip	1			X	
16	01089	Safety Lever	1			X	
17	51937	Inlet Bushing	1				X
18	07142	Bushing	1		T		
19	01017	Pin	1		T		
20	31651	Handle	1				X
21	95928	Fitting	4				X
22	07168	Valve Stem Assembly	1		T		
23	31642	Spring	1		T		
24	07147	Plug	1				X
25	07146	Packing	1		T		
26	31677	Tubing	1			X	
27	95523	O-Ring	3		T		
28	56076	Plug	2				X
29	31643	Knob	1				X
30	97109	Screw	1				X
31	31671	Mounting Plate	1			X	
32	31672	Valve Assembly	1			X	
33	31673	Check Valve	1			X	
34	95073	Right Angle Fitting	1				X
35	31650	Housing	1				X
36	02614	Bearing	1			X	
37	95555	Bearing	1			X	
38	31655	Wheel Drive Shaft	1			X	
39	31654	Key	1			X	
40	31657	Gear	1			X	
41	95159	Snap Ring	1			X	
42	01775	Pin	1			X	
43	31649	Central Vac Adapter	1			X	
44	31658	Gasket	1			X	
45	31645	Timing Belt	1			X	
46	31646	Belt Guard	1				X
47	31678	Screw	1			X	
48	31682	Felt Muffler	2		T		
49	31681	Muffler Cap	1			X	
50	31683	Muffler Flange	1			X	
51	31647	Platen	1	See Note 2			
52	31648	Platen Cover Plate	1				X
53	31659	Shaft	1				X
54	31653	Key	1			X	
55	31656	Pinion	1			X	
56	30356	Bearing	1			X	
57	31664	Cover Plate	1				X
58	31660	Gear	1			X	
59	31661	Snap Ring	1		T		
60	01041	Grease Fitting	1		T		
61	31675	Snap Ring	1			X	
62	31666	Front Wheel Hub	1				X
63	31667	Spacer	1				X
64	31669	Shaft	1			X	
65	97049	Bolt	1			X	
66	95316	Pin	1	X			

Note: Please refer to page 4 and 5 of tool manual for specific part number.

Note 2: Platens are a consumable item. Platens are application sensitive, their expectant life will vary.

(continued on next page)

Preventative Maintenance Schedule (Continued)

Index #	Part Number	Description	Number Required	High Wear 100%	Medium Wear 70%	Low Wear 30%	Non-Wear 10%
67	31668	Tension Arm	1			X	
68	11040	Spring	1			X	
69	31670	Tracking Bar	1			X	
70	31674	Screw	1			X	
71	95218	Tracking Knob	1			X	
72	31662	Guide Shaft	1				X
73	97805	Air Cylinder	1				X
74	01020	O-Ring	1			X	
75	31665	Guide Block	1				X
76	31663	Bearing	2			X	
77	95311	Screw	4			X	
78	31676	Tubing	1			X	
79	95572	Bearing	2			X	
80	95531	Label	1				X
81	95442	Screw	2				X
82	31684	Spacer	1			X	
83	95146	Washer	1			L	
84	31634	Timing Belt Pinion	1			X	
85	31644	Washer	1				X
86	31633	Rotor Nut	1				X
87	02552	Bearing	1		T		
88	01277	Shim Pack (3/pkg.)	1		T		
89	31632	Front Bearing Plate	1				X
90	52467	Spacer	1			X	
91	31631	Rotor	1				X
92	54972	Vane (5/pkg.)	1	T			
93	54976	Cylinder (Incl. 51046)	1			X	
94	54977	Rear Bearing Plate	1				X
95	02651	Bearing	1		T		

Optional Accessories



98223 Motor Tune-Up Kit

- Includes assorted parts to help maintain and repair motor.



95542 Grease 10 oz.

- 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-hand operation.



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 ml)

95843: 1gal. (3.8 L)

Reference Contact Information

1. American National Safety Institute – ANSI

25 West 43rd Street
Forth Floor
New York, NY 10036
Tel: 1 (212) 642-4900
Fax: 1 (212) 398-0023

2. Government Printing Office – GPO

Superintendent of Documents
Attn. New Orders
P.O. Box 371954
Pittsburgh, PA 15250-7954
Tel: 1 (202) 512-1803

3. European Committee for Standardization

Rue de Stassart 36
B - 1050 Brussels, Belgium

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