Parts Page Reorder No. PD10•16
Effective March, 2010
Supercedes PD05•09

3" x 24" Belt Sander

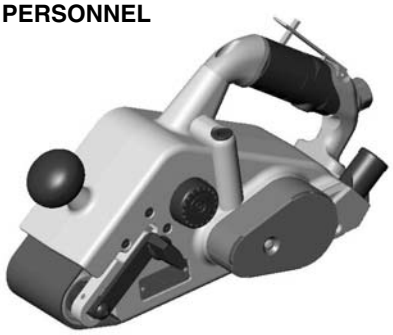
Air Tool Manual – Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

Models:

52900 – Central Vacuum

Maximum Surface Feet per Minute (SFPM) 2000 / (SMPM) 610



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⚠ 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 Standards 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

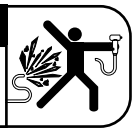
Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or local statues, ordinances and/or regulations.

⚠ 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.



⚠ WARNING

Some dust created by sanding, 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: 3" x 24" Belt Sanders are ideal for removal of materials using abrasive belt accessories. An appropriate external vacuum source is required that is suitable for material being processed.

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.

(continued on next page)

Accessory Selection: (Continued)

- 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 g) (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 personal protective equipment. 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.
- Working end of air tool has a potential for cutting.

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.

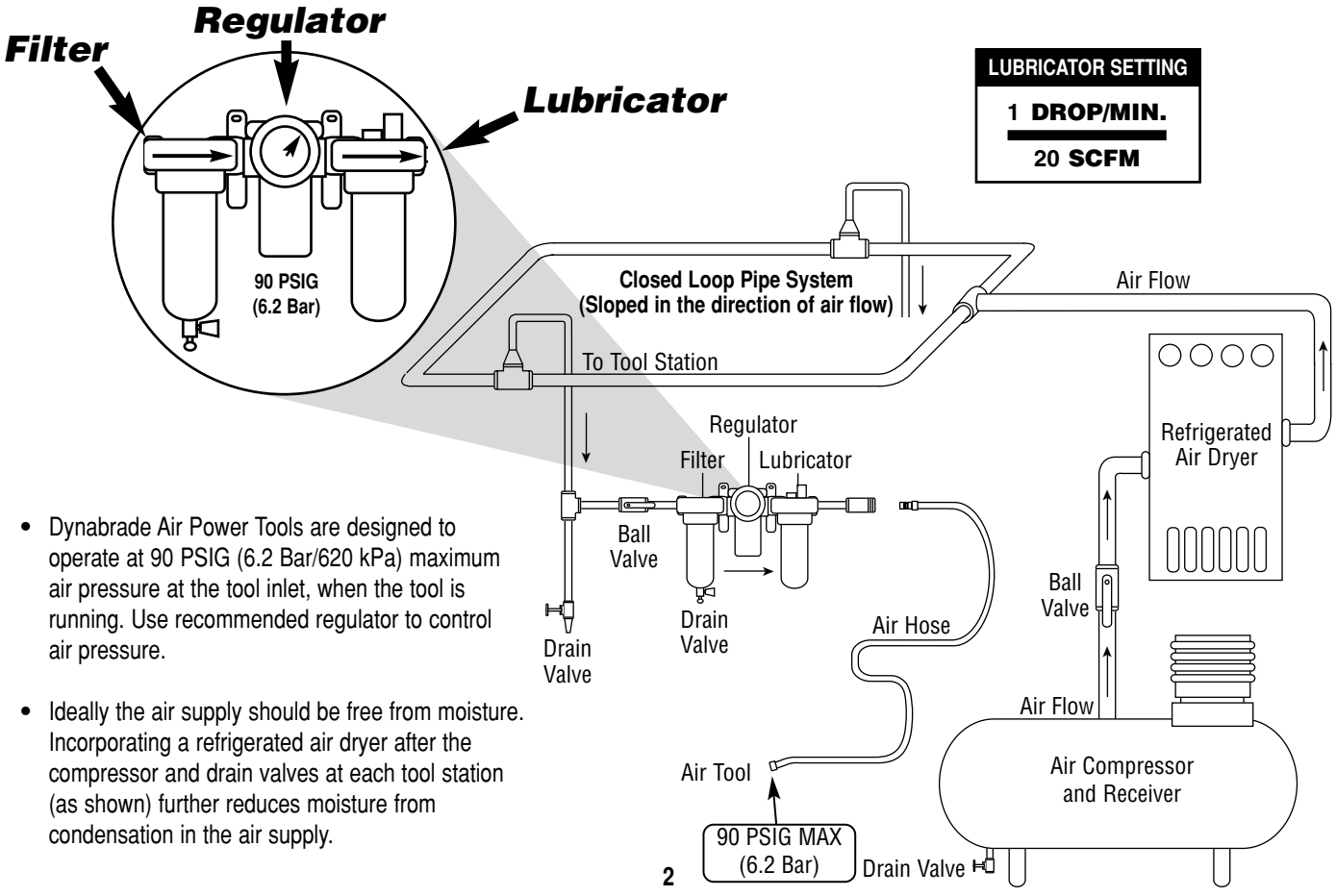
- With power source connected at the air tool relieve hose of air pressure and disconnect tool from air supply when changing recommended accessories.
- Connect air tool to power source. Be careful NOT to depress throttle lever in the process. **Do not expose air tool to inlet pressure above 90 PSIG or (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.

- Release throttle lever when air supply is interrupted.
- Only use abrasive sanding belts when properly aligned and 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



- 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: 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: **10681** Air Filter-Regulator-Lubricator (FRL) – Provides accurate air pressure regulation and two stage filtration of water contaminants.
- **Apply 3 plunges of 95542 Grease through grease fitting located on side of gear box 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.
- 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 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)	3,500	3 x 24	88 dB(A)	50 (1,416)	1/2" or 15mm	3/8" NPT	2000 (610)	12.5 (5.7)	13-1/4 (337)	7-1/8 (181)

Additional Specifications: Air Pressure 90 PSIG (6.2 Bar)
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.

Lifetime Warranty

All Dynabrade portable pneumatic power tools are rigorously inspected and performance tested in our factory before shipping to our customers. If a Dynabrade tool develops a performance problem and an inherent defect is found during normal use and service, Dynabrade will warrant this tool against defects in workmanship and materials for the lifetime of the tool. Upon examination and review at our factory, Dynabrade shall confirm that the tool qualifies for warranty status, and will repair or replace the tool at no charge to the customer. Normally wearable parts and products are NOT covered under this warranty. Uncovered items include bearings, contact wheels, rotor blades, regulators, valve stems, levers, shrouds, guards, O-rings, seals, gaskets and other wearable parts. Dynabrade's warranty policy is contingent upon proper use of our tools in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment that has been subjected to misuse, negligence, accident or tampering in any way so as to affect its normal performance. To activate lifetime warranty, customer must register each tool at www.dynabrade.com. Dynabrade will not honor lifetime warranty on unregistered tools. A one-year warranty will be honored on all unregistered portable pneumatic power tools. Lifetime warranty applies only to portable pneumatic tools manufactured by Dynabrade, Inc. in the USA. Lifetime warranty applies only to the original tool owner; warranty is non-transferable.

To Change Abrasive Belts:

1. Disconnect tool from power source.
2. Toggle "Belt Tension" lever to back position, remove belt.
3. Install new belt, then align belt to drive wheel by rotating the belt.
4. Connect to power source, toggle "Belt Tension" lever forward and adjust belt tracking while tool is running at free speed by using the **31685** Knob.

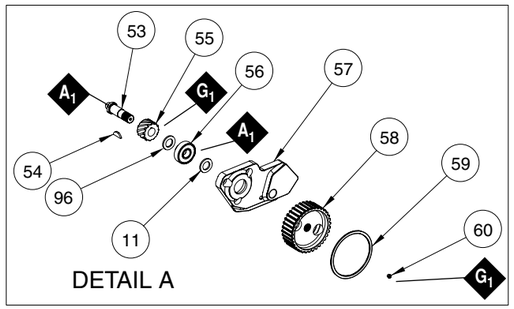
3" x 24" Belt Sander
Complete Assembly

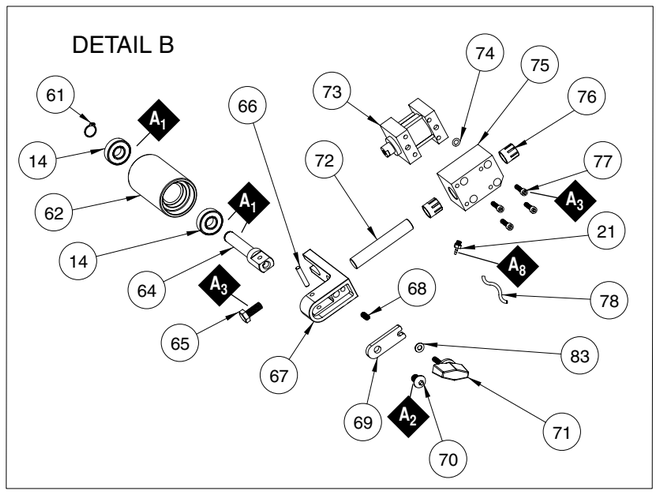
KEY

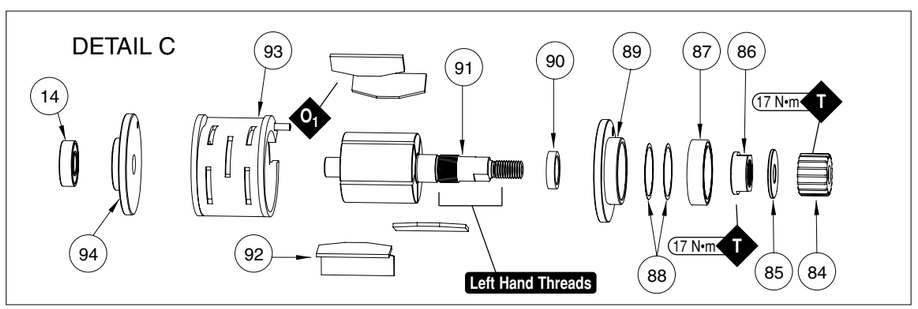
- O — Oil: O_1 = Air Lube
- G — Grease: G_1 = Lubriplate 630 AA
- A — Adhesive: A_1 = Loctite #609, A_2 = Loctite #271, A_3 = Loctite #243, A_6 = Loctite #380, A_8 = Loctite #567
- T — Torque: N•m x 8.85 = In. - lbs.

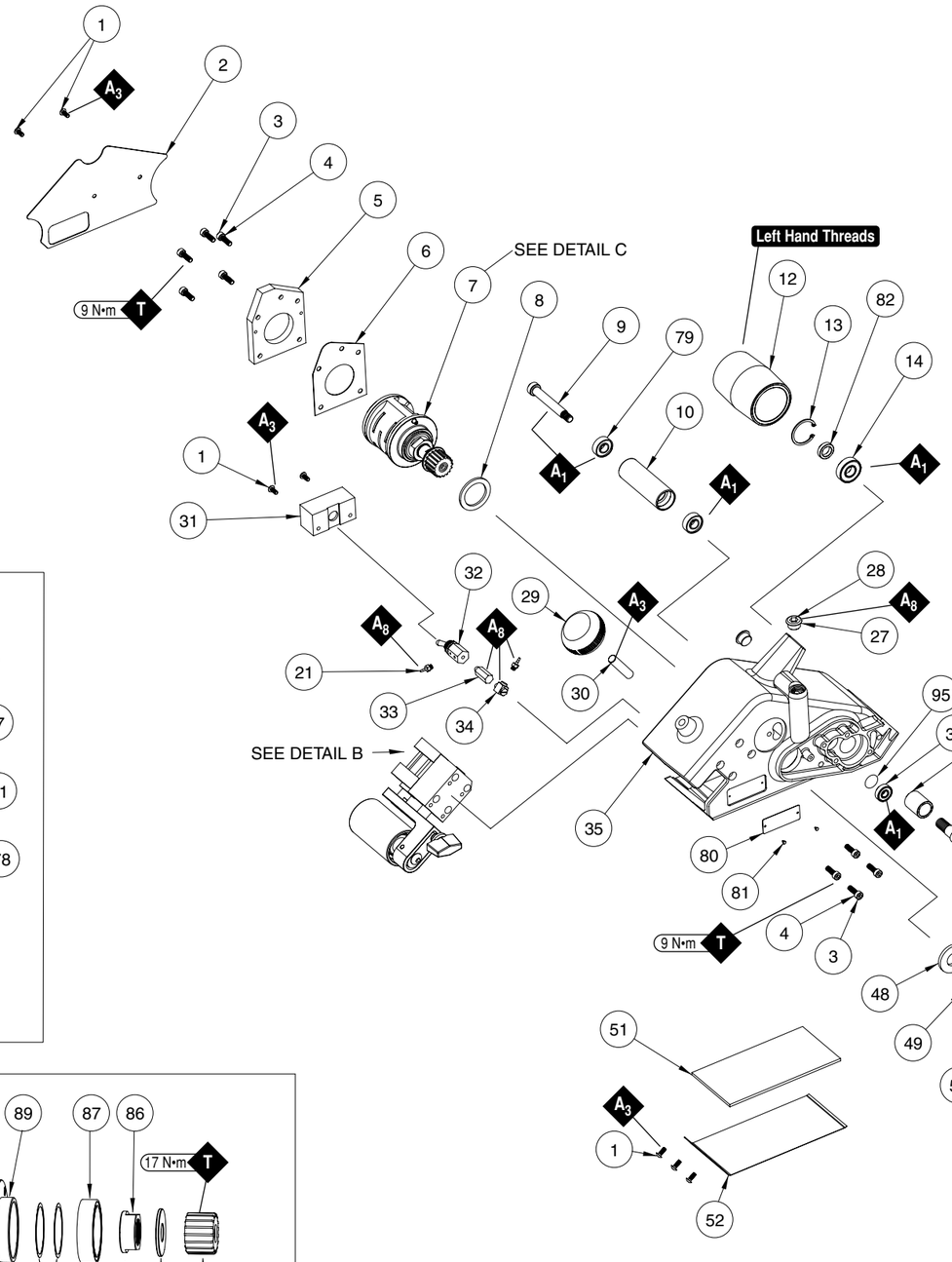
Index Key

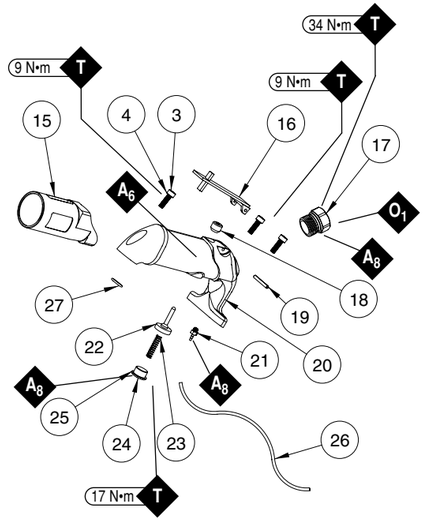
No.	Part #	Description
1	**96030**	Screw (7)
2	**31636**	Cover Plate
3	**01790**	Screw (17)
4	**01791**	Lock Washer (17)
5	**31637**	Motor Cover
6	**31638**	Gasket
7	**31635**	1.3Hp Motor Assembly
8	**07158**	Spacer
9	**97140**	Screw
10	**31686**	Idler Wheel
11	**95446**	Washer
12	**31640**	Drive Wheel
13	**31641**	Snap Ring
14	**02651**	Bearing (4)
15	**07136**	Grip
16	**01089**	Safety Lever
17	**51937**	Inlet Bushing
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	**95642**	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	**31687**	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
79	**50722**	Bearing (2)
80	**31628**	Label
81	**95442**	Screw (2)
82	**31684**	Spacer
83	**95146**	Washer
84	**31634**	Timing Belt Pinion
85	**31644**	Washer
86	**31633**	Rotor Nut
87	**02552**	Bearing
88	**01277**	Shim Pack (3/pkg.)
89	**31632**	Front Bearing Plate
90	**52467**	Spacer
91	**31631**	Rotor
92	**54972**	Vane (5/pkg.)
93	**54976**	Cylinder (Incld. 51046)
94	**31688**	Rear Bearing Plate
95	**50424**	Spindle Cap Cover
96	**95557**	Washer











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 **95642** 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 4mm 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 4⅝" bearing separator around the back portion of the **54976** Cylinder, (area closest to the **31688** 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 of 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 **31688** 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 4mm 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 **95642** 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.

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.

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**	1.3 hp Motor Assembly	1	**See Note**			
8	**07158**	Spacer	1		T		
9	**97140**	Screw	1				X
10	**31686**	Idler Wheel	1			X	
11	**95446**	Washer	1				X
12	**31640**	Drive Wheel	1			X	
13	**31641**	Snap Ring	1			X	
14	**02651**	Bearing	4		**See Note 3**		
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		T		
45	**31645**	Timing Belt	1			X	
46	**31646**	Belt Guard	1				X
47	**95642**	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	**See Note 2**			
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.
Note 3: One bearing is provided in the tune-up kit for replacement in the motor assembly.

(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	**31687**	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	**50722**	Bearing	2			X	
80	**31628**	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 (Incld. 51046)	1			X	
94	**31688**	Rear Bearing Plate	1				X
95	**50424**	Spindle Cap Cover	1				X
96	**95557**	Washer	1				X

Optional Accessories

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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.

95821: 8oz. (118 ml)
95842: 1pt. (473 ml)
95843: 1gal. (3.8 L)

Reference Contact Information

1. **American National Standards Institute – ANSI**
   25 West 43rd Street
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   Fax: 1 (212) 398-0023

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3. **Power Tool Institute, Inc.**
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4. **European Committee for Standardization**
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