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:
7" Right Angle Sanders are ideal for material removal using abrasive discs with appropriate back-up pads.

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 air tools will maximize their performance.

• Employer’s Responsibility – Provide 7” Right Angle Sander operators with safety instructions and training for safe use of tools and accessories.

Accessory Selection:
• Warning: DO NOT use cut-off wheels, saw blades, grinding wheels or flap discs. See tool intent for recommended accessory.
• Follow tool specifications chart before choosing size and type of accessory.
• Back-up Pad/Abrasive RPM (speed) rating MUST be approved for at least the tool RPM rating.
• Only use recommended fittings and air line sizes.

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

SAFETY LEGEND

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

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

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

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

Some dust created by grinding, sanding, 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 (continued on next page)
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 which has a potential hazard of cutting and severing.

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 a back-up pad/abrasive, after all tool repairs and whenever a 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.

Warning: Back-up pad speed rating must be approved for at least the tool RPM rating. Check accessory manufacturer for details on maximum operating speed or special mounting instructions.

Back-Up Pad/Abrasive Mounting

• Disconnect air source from the tool.

• Clean spindle and locking flange nut mounting surfaces. Inspect for nicks, cuts, sharp edges and thread wear.

• Install back-up pad onto spindle (ideal mounting is shown) with abrasive disc mounted and locking flange nut secured. Spindle end should be flush with locking flange nut with + or - 1/16". Spacers may be needed to achieve ideal mounting.

• Check mounting by rotating spindle, make certain abrasive disc is concentrically mounted and back-up pad is not excessively warped.

Side View

Back-up Pad
Option Spacers(s)
Spindle
Abrasve Disc
Lock Flange Nut

1/4 MAX. overhang of abrasive disc

1. Connect the tool to the air 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).

Warning: After installing the back-up pad/abrasive, make sure that no one is in the unguarded plane before starting the sander. In a protected area, test run the sander 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. Test sander at its free speed (RPM) in a protected area for at least one minute before use.

• DO NOT engage spindle lock while spindle is rotating.

• Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris.

• 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.

• 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 does not create a hazard.

• Always be aware of bystanders in work areas.

• This tool has side exhaust, rotate muffler cover by hand to desired exhaust direction. Exhaust may contain lubricants, vane material, bearing grease, and other materials flushed through the tool.

Warning: Sanding certain materials can create explosive dust. It is the employers responsibility to notify the user of acceptable dust levels. Reduce the risk by using dust collection systems and personal protective equipment.

• Sanding can cause sparks which can cause fires or explosions. It is the users responsibility to make sure the work area is free of flammable materials.

• Use side handle provided to best control tool during sanding.

• Release the throttle lever in case of an interruption of the energy supply.

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

CLOSED LOOP AIR SYSTEM

Sloped in Direction of Air Flow

• Dynabrade Air Power Tools are designed to operate at 90 PSIG (6.2 Bar) 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/Minute per 20 SCFM
Maintenance Instructions

Important: To keep tools safe a Preventative Maintenance Program is required whenever portable power tools are used. The program shall include inspection of air supply lines, air line pressure, proper lubrication and repair of tools. Refer to ANSI B186.1 and EN 792 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 Line Filter-Regulator-Lubricator — Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components
- Lubricate wick system through the angle gear oil fitting with 2-3 plunges for every 24 hours of use, to achieve maximum gear life. Important: Use only the recommended angle gear oil for the wick system. Do not contaminate the wick with any other oil or grease product. (Order 95484 Gear Oil and 95541 Gun) Always prime pump to insure good flow before lubricating gears.
- 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 tool using a tachometer without abrasive accessory attached with 90 PSIG at inlet while tool is running. This governor controlled tool should be speed checked every 20 hours of use or weekly, whichever occurs more frequently. Always check tool speed after any maintenance or repair.
- Take special care when performing any maintenance to the governor, the governor is preset at the factory to maintain the maximum rated speed for the tool, if any inconsistency is found in the operating speed the tool must not be used. Investigate the cause, repair and recheck the free speed before use.
- Inspect pad backing for excessive wear, nicks, cracks and cuts at the pad edges. Do not use pads that show excessive wear.
- Check pad backing for concentricity.
- Visually inspect abrasive discs for nicks, cuts, tears at the edges. Abrasive disc with a curved shape indicates improper storage. Do not use abrasives that show these characteristics.
- 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 96100) 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 tool vibration before mounting abrasive wheel accessory.

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. When carrying tool keep hands away from throttle lever to avoid accidental startup.
- Protect abrasives accessories from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.
- Store abrasive discs prior to use at 40-50% relative humidity and 60-80˚ F (15-27˚ C) to reduce curling.
- Store accessories in protective racks or compartments to prevent damage.

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.

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.
Disassembly/Assembly Instructions - Right Angle Sanders

Important: The Manufacturing Warranty is void if the tool is disassembled before the warranty expires by anyone other than a Dynabrade® Approved Repair Technician. Notice: A 96100 Motor Tune-Up Kit is available. Also, the special repair tooling referred to in these instructions can be ordered through your Dynabrade® Distributor. Please refer to this tool manual for correct part number identification.

Important: Always follow these steps before servicing any part of this air tool.

1. Shut off the air supply, and depress throttle lever to dissipate the remaining air. Carefully disconnect the tool from the air supply hose.
   Note: Use a wrench to hold the air tool inlet bushing stationary when removing the air supply connection.
2. Remove any abrasive product, flanging, guard, and side handle.

Motor Disassembly:

1. Use a 3mm drive punch to remove the throttle lever.
2. Roll back front edge of 25253 Insulating Cover just enough to expose wrench flats on 25257 Cup Nut.
3. Place padding around the housing and carefully hold the housing stationary in a vise. Use an adjustable wrench or 98283 Open End Wrench (sold separately) to loosen the 25257 Cup Nut. Turn counterclockwise. Note: Applying heat to cup nut will help loosen adhesive.
4. Carefully pull motor assembly out of the housing.
5. Hold pinion gear in a vise with aluminum or bronze jaws. Use an adjustable wrench to remove the governor assembly.
   LEFT HAND THREAD Turn clockwise.
6. Fasten 96346 2" Bearing Separator around the portion of 25235 Cylinder that is closest to 25237 Rear Bearing Plate. Place the bearing separator motor on the table of the 96232 #2 Arbor Press with pinion gear pointing downward. Use a 3/16" or 4mm diameter flat end drive punch push rotor out of the 01206 Bearing.
7. Remove the vanes from rotor and 01206 Bearing from bearing plate.
8. Fasten the vane slot portion of rotor in a vise with aluminum or bronze jaws so that the pinion gear is pointing up.
9. Use a hook/spin wrench unthread pinion gear from rotor. Turn counterclockwise.
10. Remove the throttle lever.
11. Remove the front bearing plate, shims and 01010 Spacer.

Motor Disassembly Complete.

Spindle/Gear Disassembly:

1. Place padding around the housing and carefully hold the housing stationary in a vise with the spindle pointing up. Use the 97782 Pin Wrench (sold separately) or an adjustable pin wrench to remove 25265 Retainer. LEFT HAND THREAD Turn clockwise.
2. Remove 53609 Felt Seal from spindle or retainer.
3. Pull spindle and gear assembly out of the housing.
4. Fasten the 96346 2" Bearing Separator under 02057 Bearing and press spindle through bearing. Remove 25254 Wick. Remove 98243 Wave Spring from the right angle housing.
5. Fasten the 96346 2" Bearing Separator between 01036 Bearing and spiral bevel gear. Place the bearing separator along with the spiral bevel gear assembly on the table of the 96232 #2 Arbor Press so that the spindle thread is pointing down. Push the gear off the spindle.
6. Remove the 01036 Bearing the same way.
7. Remove the housing from vise.

Spindle Disassembly Complete.

Spindle Lock Disassembly:

1. Apply a small amount of the Dynabrade Air Lube 10W/NR (P/N 95842 or equivalent) around the 25273 Plunger Assembly.
2. Place padding around the housing and carefully hold the housing stationary in a vise with the plunger assembly facing up.
3. Use two flat blade screwdrivers to pry the plunger assembly out of the 25275 Spindle Lock Bushing.
4. Remove the 98285 Spring and the 96156 Ring from the plunger.

Spindle Lock Disassembly Complete.

Valve Disassembly:

1. Secure 25245 Throttle Handle in a vise using wrench flats so that the 25213 Inlet Bushing pointing upward.
2. Use an adjustable wrench, unthread 25213 Inlet Bushing. Turn counterclockwise.
3. Use needle nose pliers, pull 25249 Tip Valve from handle.
4. Use a small screwdriver to remove the 96443 O-Ring from the valve stem and remove the valve stem.
5. Position 25245 Throttle Handle in the vise with 25257 Cup Nut and 25256 Governor Housing pointing up. Use a 10 mm hex key to remove the 25256 and 25257. Turn counterclockwise. Note: Applying heat to throttle handle will help loosen adhesive bond.
6. Push the 51945 Valve Seat out of the 25245 Throttle Handle.

Valve Body Disassembly Complete.

Important: Clean and inspect all parts for wear before assembling. Note: Follow all lubricant, adhesive, and torque specifications.

Valve Assembly:

1. Install 96443 O-Ring onto 25247 Valve Stem. Apply Dynabrade Air Lube to 96443 O-Ring and carefully install the valve stem and o-ring assembly into the throttle handle. Note: Rotating the valve stem while inserting prevents damage to the o-ring
2. Apply several drops of the Dynabrade Air Lube 10W/NR (P/N 95842 or equivalent) to valve seat pocket wall on the inside of the 25245 Throttle Handle before inserting the 51945 Valve Seat. Install the 51945 Valve Seat by aligning the 3 male prongs of the valve seat with three slots of the valve seat pocket in the throttle handle. Note: Use an arbor press and the 96241 Bearing Press Tool to support the valve seat and press it into the valve seat pocket. Make certain that the valve seat stays flat.
3. Use needle nose pliers install 25249 Tip Valve into the throttle handle.
4. Install 51940 Spacer onto 25213 Inlet Bushing, followed by the 96442 O-Ring. Install the larger end of the 25250 Spring into the inlet bushing. The smaller end of the spring fits against the back of the tip valve.
5. Apply a small amount of the Loctite® #243 (or equivalent) to the external threads of the 25213 Inlet Bushing and installing it onto the throttle handle. Secure throttle handle in a vise using wrench flats. (Torque to 35N-m/310 lbs. in.)
6. Position the throttle handle in vise with the inlet bushing pointing downward.
7. Install the 66435 O-Ring onto the 25256 Governor Housing. Apply some Dynabrade Air Lube to the o-ring. Insert the governor housing through the 25257 Cup Nut. Apply a small amount of the Loctite® #567 (or equivalent) to the external threads of the governor housing. Use a 10 mm hex key to fasten the governor housing and cup nut onto the throttle handle. Turn clockwise. (Torque to 34N-m/300 lbs. in.) Note: The position of the throttle lever should be secured between the 9:00 to 11:00 o’clock position to best protect the operator from unintentional starts.
8. Apply a few drops of Loctite® #380 (or equivalent) to both sides of the throttle handle (as shown). Install the 25253 Insulating Cover and the 01462 Throttle Lever onto the throttle handle.

Valve Assembly Complete.

(continued on next page)
Disassembly/Assembly Instructions - Right Angle Sanders (cont.)

Spindle Lock Assembly:
1. Install a new 96156 Ring onto the plunger and apply a small amount of the Dynabrade Gear Oil (P/N 95848 or equivalent) to the o-ring and plunger.
2. Install 98285 Spring onto the housing bushing and insert the 25273 Plunger Assembly through the spring.
3. Install the plunger assembly into the spindle lock bushing. Note: Rotating the plunger while inserting prevents damage to the o-ring.

Spindle Lock Assembly Complete.

Motor Assembly:
1. Install 01010 Spacer onto the rotor front mandrel.
2. Select .003” (.08mm) thickness shims from the 01121 Shim Pack and install these into the 25236 Front Bearing Plate.
3. Install 98242 O-Ring into front bearing plate groove and install 01007 Bearing, into the front bearing plate.
4. Position the rotor in a vise with aluminum or bronze jaws so that the rotor spindle is pointing up. Install the front bearing/plate onto the rotor.
5. Apply a small amount of the Loctite® #243 (or equivalent) to the external threads on the rotor stem and install the pinion gear. (Torque to 17N·m/150 lbs. in.)
6. Use a .001” (0.3mm) thick feeler gauge to check the clearance between the front bearing plate and the face of the rotor. The clearance should be .001”-.0015” (0.3-0.4mm). Note: If the clearance needs adjustment repeat steps 2-6 adding or removing shims as required.
7. Lubricate 25234 Vanes (4) with the 95842 Dynabrade Air Lube 10W/ NR (or equivalent) and install these into the rotor.
8. Install 25235 Cylinder over the rotor so that the air inlet opening of the cylinder will line up with the air inlet opening on the 25237 Rear Bearing Plate.
9. Install 01206 Bearing into 25237 Rear Bearing Plate.
10. Use the raised inner diameter of 96244 Bearing Press Tool and the arbor press to install the rear bearing plate onto the rotor. Note: Carefully press the bearing/plate down until it just touches the cylinder. This will establish a snug fit between the bearing plates and the cylinder.
11. Fasten the pinion gear in a vise with aluminum or bronze jaws so that the rear bearing/plate pointing up.
12. Apply a small amount of the Loctite® #567 (or equivalent) to the external threads of governor assembly. Install it onto the rotor using an 18 mm crowfoot and torque wrench. LEFT HAND THREAD Turn counterclockwise. (Torque to 9N·m/80 lbs. in.)
13. Carefully slide the motor assembly into the housing.
14. Place padding around the housing and carefully hold the housing stationary in a vise. Apply a small amount of the Loctite® #567 (or equivalent) to housing external threads. Use an adjustable wrench tighten 25257 Cup Nut onto housing. Turn clockwise. (Torque to 30N·m/265 lbs. in.)

Important: Allow 30 minutes for the adhesives to cure before operating the tool.

Run the tool to make sure that the air motor is functioning properly before installing the right angle gears. Motor Assembly Complete.

Spindle/Gear Assembly:
1. Position the spindle in the arbor press so that the threaded end is pointing down.
2. Use a 19/32” deep well socket as a press tool, install the 01036 Bearing onto the spindle and against the step.
3. Use a 19/32” deep wall socket as a press tool and install the bevel gear onto the spindle.
4. Press 25274 Spacer onto the spindle and firmly against the shoulder.
5. Prepare the 25264 Wick by soaking in 95848 Gear Oil and then install wick onto the spindle against 25274 Spacer.
6. Press 02057 Bearing using 96243 Press Tool (sold separately) onto spindle until the spindle is flush with the bearing top.
7. Place padding around the housing and carefully hold the housing stationary in a vise with the right angle spindle opening facing up.
8. Place 98243 Wave Spring into housing pocket.
9. Install: Follow these steps to adjust the fit or “backlash” of the spiral bevel gear/pinion gear.
10. Apply a small amount of downward force on the spindle and rotate the spindle 360°. The rotation should be smooth without any tight feel or binding of the gear teeth. Next, rotate the spindle forward and backward to check the amount of backlash (free movement between the gear teeth). The correct fit should be minimal backlash without any binding of the gear teeth. Add or remove shims to adjust the gear “backlash”.
11. Place the 53609 Felt Seal into the 25265 Retainer recess bore.
12. Apply a small amount of the Loctite® #567 (or equivalent) to the threads of the retainer and use the 97782 Pin wrench to install the retainer onto the housing. LEFT HAND THREAD Turn counterclockwise. (Torque to 23N·m/203 lbs. in.)
13. Re-check the fit of the gears by hand before connecting the tool to the air supply. The correct fit should be minimal backlash without any binding of the gear teeth. Add or remove shims to adjust the gear fit if necessary.
14. Use the 95541 Lubricant Gun to apply the 95848 Gear Oil Lubricant required for the lubricating wick prime the plunger before adding gear oil to housing. Inject three full plunges of the gear oil into the 01041 Gear Oil Fitting on the front of housing. Note: Inject three full plunges of gear oil into the lubricant fitting after operating the tool every 24-hour interval of use.

Right Angle Assembly Complete.

Muffler Assembly:
1. Install 25282 Silencer (Cross section size: 7.5 mm) up and inside recess diameter of 25278 Muffler Cover.
2. Install the 96281 O-Ring (Cross section size: 2.4 mm) into the inside groove of the muffler cover.
3. Install the 96282 O-Ring (Cross section size: 2.0 mm) into the outside groove of the muffler cover.
4. Install 25274 Muffler Cover (the side with the smaller hole) onto 25281 Muffler Stem Assembly.
5. Install 25283 Silencer (Cross section size: 13 mm) into housing cavity.
6. Apply a small amount of the Loctite® #243 (or equivalent) to the external threads of the 25281 Muffler Stem Assembly. Install the 25217 Muffler Assembly onto the housing. Rotate 25281 Muffler Stem Assembly until slot aligns with housing raised boss. Thread socket head cap screw into housing using a 5/32” hex key (Torque to 7N·m/50 lbs. in.).

Muffler Assembly Complete.

Final Assembly:
Important: Allow 30 minutes for the adhesives to cure before operating the tool. Install and properly position all guarding and auxiliary side handle. Before installing mounting flanges or any abrasive product, the air tool must be tested for proper operation. Follow these steps to verify the correct rated operating speed of the tool.
1. Supply 3 drops of 95482 Dynabrade Air Lube 10W/ NR (or equivalent) into the air inlet bushing of the tool while the throttle lever is depressed. Allowing the oil to flow into the air motor.
2. Release the throttle lever.
3. With the air supply valve in the OFF position, carefully connect the tool to the air supply hose. Note: Use a wrench to hold the air inlet bushing on the tool stationary when installing the air supply connection.
4. Once the tool is connected to the air supply, turn the supply valve to the ON position. Run the tool and use a tachometer to verify the rated operating speed (RPM) of the tool. The tool should operate within 5% of the maximum rated RPM. The tool RPM must never exceed the maximum rated RPM with the operating air supply pressure reading 90 PSIG (6.2 bar g) at the air inlet of the tool. To adjust free speed add or remove shims. Adding shims will increase the speed, removing shims will reduce the tool free speed. Once the correct rated operating speed for the tool is verified, disconnect the tool from the air supply and install the proper flanging and abrasive product.

Final Assembly Complete. Tool Assembly Complete.
**Preventative Maintenance Schedule**

For Model All 7" Right Angle 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.

### Parts Common to all Models:

<table>
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<th>Part Number</th>
<th>Description</th>
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<th>Low Wear 30%</th>
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**Note:** Please refer to page 4 for specific part number and description.

---

**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.
**Optional Accessories**

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

**Dynaswivel**
- Swivels 360° at two locations which allows an air hose to drop straight to the floor, no matter how the tool is held.

95461: 3/8” NPT.

**Dynabrade Angle Gear Oil**
- Specifically formulated to saturate wick system in right angle gear head.

95848: 2.5 oz. tube
95541: Gear Oil Gun

98263 Male Plug - 3/8” NPT
- Provides up to twice the air flow compared to standard plug design.
- Plug has “ported” design to prevent “starving” of the air tool.

**95100 Motor Tune-Up Kit**
- Includes assorted parts to help maintain and repair motor.

**Dynabrade Air Lube**
- Formulated for pneumatic equipment.
- Absorbs up to 10% of its weight in water.

95821: 4 oz. (118 ml)
95842: 1 pt. (473 ml)
95843: 1 gal. (3.8 L)

**Wrenches**
98283 - Open End (1-5/8”)
95281 - Hex Key (3/16”)

**Additonal Repair Tools (Not shown)**
96244 - Bearing Press Tool
96243 - Bearing Press Tool
96346 - Bearing Separator
96208 - Repair Collar
97782 - Pin Wrench

**Machine Specifications**

<table>
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<tr>
<th>Model Number</th>
<th>Motor hp (W)</th>
<th>Motor RPM</th>
<th>Sound Level</th>
<th>Maximum Air Flow SCFM (LPM)</th>
<th>Spindle Thread</th>
<th>Air Pressure PSIG (Bars)</th>
<th>Weight Pound (kg)</th>
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Additional Specifications:
- Air Inlet Thread 3/8” NPT
- Hose I.D. 3/8” (10mm)

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

**Special Greasing Instructions**

- Lubricate wick system through the angle gear oil fitting with 2-3 plunges for every 24 hours of use, to achieve maximum gear life. Prime pump to insure good oil flow.

**Important:** Use only the recommended angle gear oil for the wick system. Do not contaminate the wick with any other oil or grease product. Insure that all 3 plunges of oil are injected through the fitting.

(Order 95848 Gear Oil and 95541 Gun)

---

**REFERENCE CONTACT INFORMATION**

American National Standards Institute (ANSI)
25 West 43 Rd St., 14th Floor • New York, NY 10036 • Tel: 1 (202) 293-8020

Compressed Air & Gas Institute
1300 Sumner Ave. • Cleveland, OH 44115-2851
Tel: 1 (216) 241-7333 • Fax: (216) 241-0105

European Committee for Standardization
Rue de Stassart 36 • B - 1050 Brussels, Belgium

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