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" Dynabuffer are specifically designed for clear coat repair. The tool is designed to remove scratches left over from sanding imperfections in clear coat finishes.

Do not use tool for anything other than its intended applications.

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

Employer’s Responsibility – Provide 3" Dynabuffer operators with safety instructions and training for safe use of tools and accessories.

Accessory Selection:
- 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 3" weight-mated Dynabrade back-up pads. Attach 3" foam buffing pads. Do Not use grinding wheels or cut-off wheels.
- 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. Operate tool ONLY under load.

• Keep hand and clothing away from working end of the air tool.
• Working end of the air tool has potential hazard of 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” Dynabuffer is issued for use, check tool RPM (speed) with tachometer, see Routine Preventative Maintenance for procedure (pg. 3).

Caution: This tool is not to be run at free speed. The tool is specifically designed to be low in vibration under load. Running the tool at free speed may cause the buffering pad to become dislodged from the back-up pad.

Caution: Tool RPM must never exceed 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 assembling tool, the 3” Dynabuffer 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.
• It is imperative that the correct weight mated back-up pad be used with the tool to avoid excessive vibration. The tool is designed to use a Dynabrade P/N 56142 Pad; this pad has a mass of 30 grams.
• Ensure that self-fixing foam buffing pads are mounted concentrically to back-up pad.
• Precondition new foam buffing pads with buffing compound before use.
• Apply dab of buffing compound to sand scratch on work surface.
• Apply approximately a 6 pound load on the pad before throttling the tool on. Adjust the force on the pad as required to feel the “sweet spot” (low vibration). Buffing for approximately 5 seconds with the pad flat on the work surface should remove the sand scratches of the initial process. Release the throttle lever and then remove the tool from the work piece.
• Release the throttle lever in case of an interruption of the energy supply.
• 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 buffing. 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.
• 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.
• This tool is front 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

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 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 contaminates.
- If Dynabrade Air Lube is not compatible with paint system it may be substituted with a compatible air tool lubricant with water absorbing properties to prevent internal components from rusting.
- 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 tool speed regularly with a tachometer. Tool must be tested with the flow control assembly completely in the full flow position. A Magnetic Tachometer such as Dynabrade P/N 96368 is the simplest way to perform this operation. To properly check tool speed the tool should be tested under load. Checking under load requires additional test equipment but assures the proper operation of the tool. All speed testing must be done with 90 psig of air at the inlet bushing, a Pressure Gage such as Dynabrade P/N 94315 is required. The under load condition can be checked by outfitting the tool with the proper back-up pad, foam buffing pad and buffing compound. Apparatus is also required to monitor the load applied to the work surface. Dynabrade offers a Load Cell P/N 80025 that allows the tool to be tested on a bench. First zero out the scale by adjusting the knob on the side of the load cell to read zero when the tool, back-up pad, and foam buffing pad are resting on the wear plate of the load cell while connected to the air line. Apply a 6 pound load to the load cell and using the digital tachometer check the operating speed of the tool. The tool should be running 7,500 RPM minimum. If the tool is running outside this range it should be serviced to correct the cause before use.
- Tool is equipped with a flow control assembly to allow adjustability. Adjustments are strongly recommended to be done during maintenance of the tool and not at the workstation. Adjustment is accomplished by rotating the 55167 Cap so that the hole aligns with the 5/32” (4 mm) hex in the 55169 Flow Control. A 5/32” or 4 mm hex wrench is inserted through the hole in the cap and into the hex in the flow control; rotating the wrench either clockwise or counterclockwise will adjust the speed. The full speed range is accomplished by a 180° twist of the wrench; further rotation of the wrench will simply repeat the cycle. Once the optimal speed setting is set rotate the 55167 Cap roughly 180° to reduce adjustment access.
- Using the tool over time may clog 55158 Muffler Insert, this may hamper performance and require replacement.
- 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 96542**) 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:**

- **DO NOT** rest tool on pad.
- Use of tool hanger 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

<table>
<thead>
<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>Air Pressure PSIG (Bars)</th>
<th>Spindle Thread</th>
<th>Weight Pound (kg)</th>
<th>Length Inch (mm)</th>
<th>Height Inch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>55126</td>
<td>.5 (373)</td>
<td>12,000</td>
<td>79 dB(A)</td>
<td>37 (1048)</td>
<td>90 (6.2)</td>
<td>5/16&quot;-24 female</td>
<td>2.7 (1.2)</td>
<td>9-1/2 (242)</td>
<td>4-1/8 (105)</td>
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</table>

Additional Specifications: Air Inlet Thread 1/4” NPT • Hose I.D. Size 3/8” (10mm) • Tool Vibration Data (Per ISO 8662.8) 2.0 m/s²

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

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**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.
**Motor Assembly/Disassembly Instructions – 3” Dynabuffer**

**Disconnect tool from the air supply before servicing.**

**Motor Disassembly:**

1. Use the 59293 Offset Wrench (28 mm) to remove the back-up pad.
2. Install the 95492 Screws (part of 96519 Tool Repair Kit) into the two handle bosses in the 55160 Housing.
3. With the shaft balancer (counterbalance) facing up, position 95492 Screws between the vise jaws and secure the 55126 3” Dynabuffer in the vise.  
   NOTICE: Do not over tighten the vise.
4. Use the 95050 Hex Key (5/64”) to remove the four 97101 Screws from the 55157 Inner Shroud before removing the motor from the 55160 Housing.
5. Use the 56058 Lock Ring Wrench to loosen the 55154 Lock Ring. Turn counterclockwise.
6. Loosen the vise and pull the motor assembly out of the 55160 Housing. Use the 96343 Retaining Ring Pliers to remove the 95826 Retaining Ring.
7. Fasten the 96346 Bearing Separator between the 54679 Rear Bearing Plate and the 55151 Cylinder Assembly.
8. With the bearing separator secured to the motor assembly, place the separator on the table of the 96232 Arbor Press (#2) with the counterbalance pointing down.
9. Use a 5/16” diameter flat end drive punch as a press tool and push the 55153 Shaft Balancer out of the 01206 Bearing.
10. Remove the rotor, vanes, and the 54673 Key from the shaft balancer.
11. Remove the 55152 Front Bearing Plate from the 02695 Bearing.
12. Fasten the bearing separator between the counterbalance and the 02695 Bearing. Use the arbor press to remove the bearing.
13. Secure the counterbalance of the 55153 Shaft Balancer in a vise with aluminum or bronze jaws so that the 26 mm hex end of the 57069 Balancer Shaft is accessible and facing up.
14. Use a small thin screwdriver to pick the notched end of the shaft balancer. Work the screwdriver under and around the 95630 Snap Ring to remove it.
15. Apply heat to the counterbalance with a HEAT GUN. Use the 56056 Bearing Puller to remove the 57069 Balancer Shaft and 56052 Bearing.
16. Fasten the bearing separator between the 26 mm hex end of the 57069 Balancer Shaft and the 56052 Bearing. Place the separator on the table of the arbor press with the notched end of the balancer shaft pointing down. Use a 5/16” diameter flat end punch as a press tool and push the 57069 Balancer Shaft out of the 56052 Bearing.

**Motor Disassembly Complete.**

**Shroud Disassembly:**

**NOTICE:** Use the 95050 Hex Key (5/64”) to remove the four 97101 Screws from the 55157 Inner Shroud before removing the motor from the 55160 Housing. The motor must be removed from the 55160 Housing, before the shroud assembly can be removed.

1. Install the 95492 Screws into the two handle bosses in the 55160 Housing.
2. With the shroud facing up, position 95492 Screws between the vise jaws and secure the 55160 Housing in the vise.  
   NOTICE: Do not over tighten the vise.
3. Gasp the shroud assembly and carefully pull it from the 55160 Housing.
4. Rotate the 55157 Inner Shroud to release it from the 55160 Housing.
5. Install the 95492 Screws between the vise jaws and secure the 55160 Housing in the vise.
6. Install the 95166 Hang Plate from the 55160 Housing.
7. Remove the two 55161 O-Rings from the inner and outer shrouds.
8. Remove the 96402 Special Repair Tool into the hex socket in the bottom of the housing.

**Shroud Disassembly Complete.**

**Throttle Body Disassembly:**

1. With the air inlet opening pointing up, secure the wrench flats of the 96402 Special Repair Tool in a vise with aluminum or bronze jaws. Use two wrenches when removing the air connection fitting. Place one wrench on the 55168 Inlet Adapter to hold it stationary, and use another wrench to remove the air fitting. Use an adjustable wrench to remove the 55170 Flow Control Assembly from the throttle body. NOTICE: Refer to the exploded view of the speed control assembly to identify the parts and their proper order of assembly.
2. Use needle nose pliers to remove the 01468 Spring, and the 58365 Tip Valve. Use a small screwdriver to remove the two 45310 Valve Seals.
3. Use a 3/32” diameter flat end drive punch to remove the 97060 Pin and 45283 Throttle Lever Assembly.
4. Use the 56056 Bearing Puller to remove the 96402 Special Repair Tool from the throttle body housing.
5. Push the 45267 Insert out of the 45309 Throttle Body Housing.
6. Use a slot blade screwdriver to remove the 45315 Throttle Bushing.
7. Push the 45309 Throttle Body Housing out of the 45206 Housing Sleeve.

**Throttle Body Disassembly Complete.**

**Important: Clean and inspect all parts before assembling.**

**Throttle Body Assembly:**

1. Insert the hex end of the 96402 Special Repair Tool into the hex socket in the bottom of the 45309 Throttle Body Housing.
2. With the air inlet opening pointing up, secure the wrench flats of the 96402 Special Repair Tool in a vise with aluminum or bronze jaws.
3. Install the 45206 Housing Sleeve onto the 45309 Throttle Body Housing.
4. Use a slot blade screwdriver to install the 45315 Throttle Bushing.
5. Install 97045 Plunger.
6. Install the 45263 Throttle Lever Assembly and secure it with the 97060 Pin. Install the two 45310 Valve Seals. Use needle nose pliers to install the 58365 Tip Valve, and the 01468 Spring.
Shroud Assembly Complete.

95842 Dynabrade Air Lube 10W/NR (or equivalent) directly into the air inlet with throttle lever depressed. Follow tool speed check procedure outlined in Routine Preventative Maintenance section on page 3.

Additional Information: It is important to determine that the tool is working properly and safely before applying the tool to the work.
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.

### Preventative Maintenance Schedule

For All 1 hp 3” Dynabuffer

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>
<thead>
<tr>
<th>Index</th>
<th>Part Number</th>
<th>Description</th>
<th>Number Required</th>
<th>High Wear 100%</th>
<th>Medium Wear 70%</th>
<th>Low Wear 30%</th>
<th>Non-Wear 10%</th>
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**Legend:**

- **T** Part included 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

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

96542 Motor Tune-Up Kit
- Includes assorted parts to help maintain and repair motor.

80030 Training and Maintenance Test Equipment Kit:
- 80025 Load Cell measures tool RPM under load and useful for training operators for proper buffing pressure/operation. Electronic tachometer pick-up securely fastens to wear plate.
- 94315 Pressure Gage to ensure peak operating performance.
- 96368 Tachometer used to measure tool RPM.

96519 Tool Repair Kit
- Includes special tools for proper disassembly/assembly of the tool.

Includes the following:
- 56058 Lock Ring Wrench
- 95492 Screw (2)
- 96402 Special Repair Tool
- 57091 Bearing Press Tool
- 95050 Hex Key (5/64")

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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.

REFERENCE CONTACT INFORMATION

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International Organization of Standards (ISO)
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