Parts Page Reorder No. PD07•26
Effective July, 2007
Supersedes PD06•19

# Mini-Dynafile® II

**For Serial No. 7G1858 and Higher**

***Air Tool Manual – Safety, Operation and Maintenance***

**SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL**

## *Models:*

**15003 – Basic Tool**
**15006 – Versatility Kit**



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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 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 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 alerted from the original design without expressed written consent from Dynabrade, Inc.**

**Tool Intent:** Dynafile® abrasive belt machine replaces tedious hand filing and sanding and can be used for grinding, deburring, blending and polishing. Tool can be used on most materials including metal, plastic, fiberglass, composites, rubber, glass and stone.

**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 its performance.

- Employer's Responsibility – Provide Dynafile® 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.
- Mount only recommended accessories. See manual and Dynabrade catalog.
- Follow tool specifications before choosing size and type of accessory.
- Only use recommended fittings and air line sizes. (See tool Machine Specifications table.)

(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.

- 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.)
- Keep hand and clothing away from working end of the air tool.
- 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.
- 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.

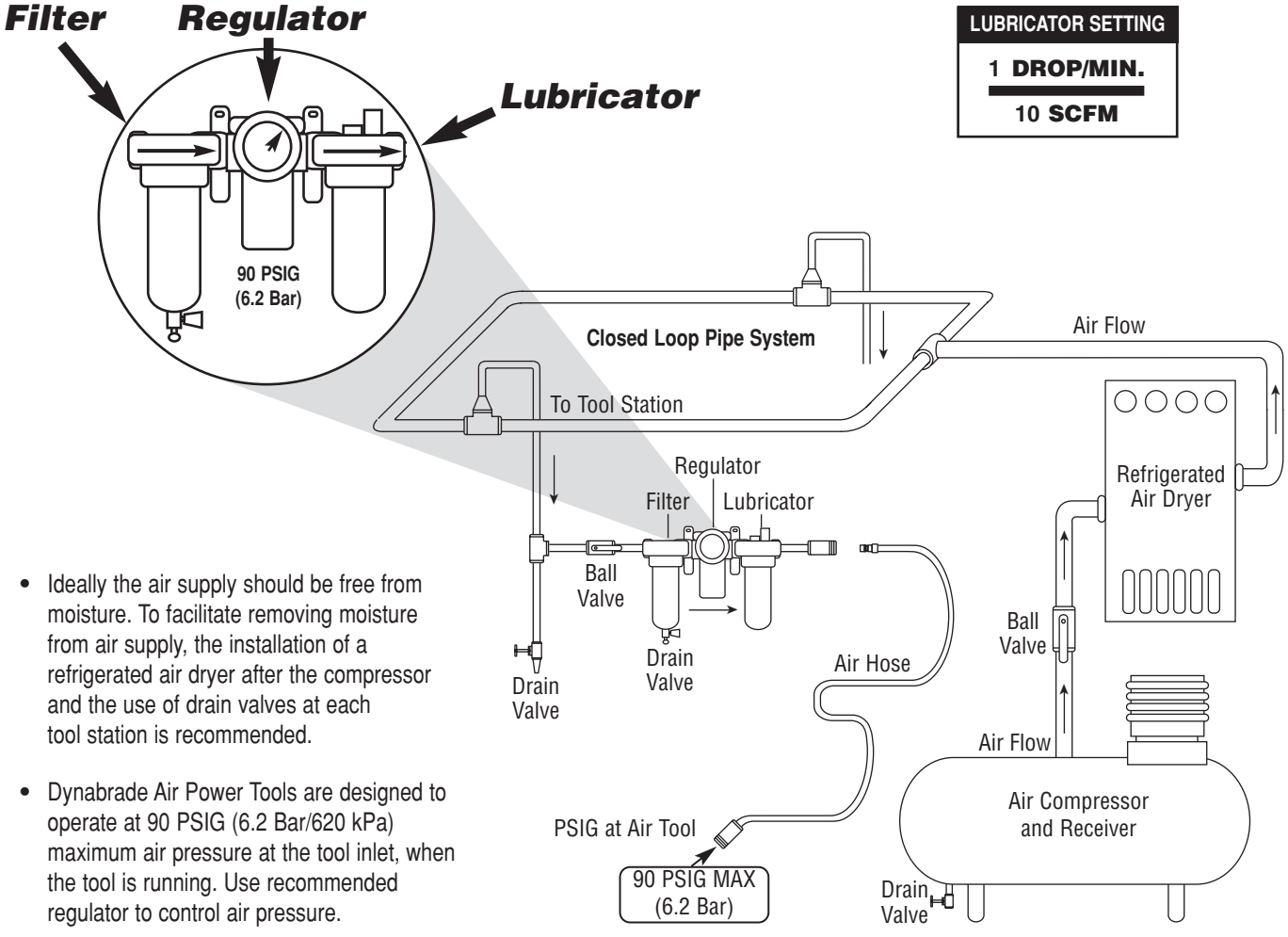
- Disconnect air hose from tool when changing belts and contact arms.
- Connect air tool to power source. Be careful NOT to depress throttle lever in the process. **Do not expose air tool to inlet pressure above 90 PSIG or (6.2 Bars).**

**Caution:** After installing the accessory, before testing or use and/or after assembling tool, the Dynafile® 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.

- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris.
- 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, good posture and proper lighting.
- 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.

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

## *Air System*




- 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.
- 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.

## *Machine Specifications*

| Model Number | Motor hp (W) | Motor RPM | Max. SFPM (SMPM) | Sound Level | Air Flow Rate SCFM (LPM) | Abrasive Belt Size Inch (mm) | Weight Pound (kg) | Length Inch (mm) | Height Inch (mm) |
|---|---|---|---|---|---|---|---|---|---|
| All Models | .4 (298) | 25,000 | 4,890 (1,486) | 78 dB(A) | 20 (566) | 1/8"-1/2" (3-13)W x 12" (305)L | 1.8 (.82) | 10-3/4 (275) | 3-1/2 (89) |

Additional Specifications: Air Inlet Thread 1/4" NPT • Hose I.D. Size 1/4" (6 mm) • 90 PSIG (6.2 Bars)

# Maintenance Instructions

**Important:** A Preventative Maintenance Program is recommended whenever portable power tools are used.

- 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 for air pressure regulation, two stage filtration of water and contaminants. Operates 40 SCFM/1,133 LPM @ 100 PSIG with 3/8" NPT female ports.
- Dynabrade recommends one drop of air lube per minute for every 10 SCFM (example: if the tool specification states 40 SCFM, set the drip rate on the filter-lubricator to 4 drops per minute). Dynabrade Air Lube (P/N **95842**: 1 pt 473 ml) is recommended.

**Routine Preventative Maintenance:** Check free speed of Dynafile® using a tachometer.

- 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 **96074**) 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.

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### 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.

### 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.

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## Abrasive Belt and Contact Arm Assembly Change/Housing Angle Adjustment

**To Change Abrasive Belts:**

1. Disconnect the tool from the power source.
2. Loosen the **15058** Captive Screw and remove the **15057** Belt Guard.
3. Pull back the **15101** Tension Arm and remove the abrasive belt.
4. Install a new abrasive belt, and the **15057** Belt Guard.
5. Connect the tool to the power source and adjust the belt tracking by turning the **15108** Knob.

**To Change Contact Arm Assemblies:**

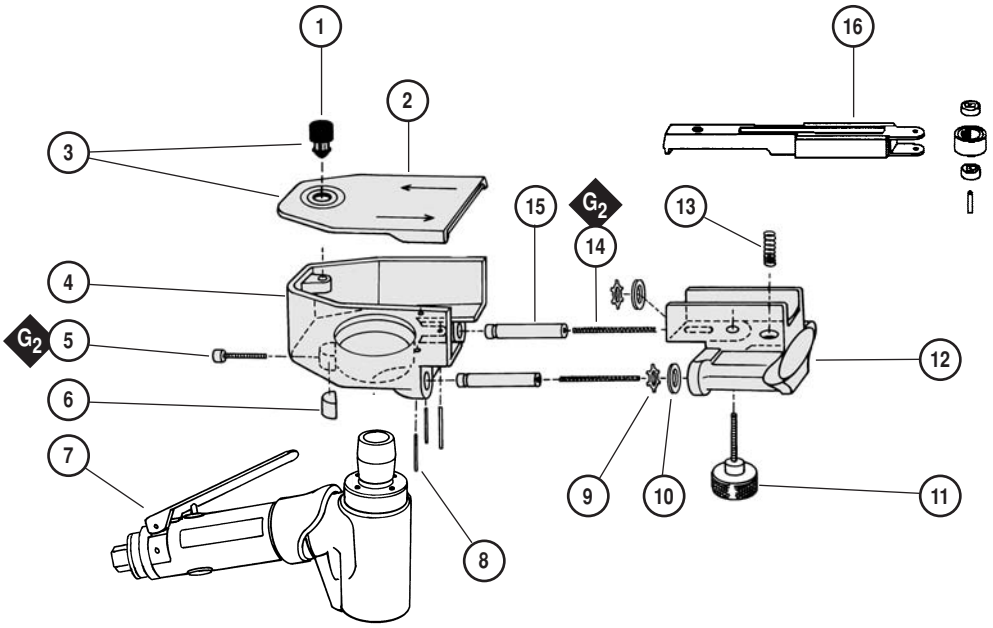
1. Disconnect the tool from the power source.
2. Loosen the **15058** Captive Screw and remove the **15057** Belt Guard.
3. Pull back the **15101** Tension Arm and remove the abrasive belt.
4. Loosen the **15108** Knob to remove the contact arm assembly.
5. Install the desired contact arm assembly so that the tab on the end of the arm faces toward the **15101** Tension Arm.
6. Fasten the contact arm assembly in place with the **15108** Knob.
7. Install a new abrasive belt, and the **15057** Belt Guard.
8. Connect the tool to the power source and adjust the belt tracking by turning the **15108** Knob.

**Housing Angle Adjustment:**

1. To pivot the **15060** Housing Assembly, use a 3mm hex key to loosen the **01788** Motor Lock Screw.
2. Pivot the housing assembly and fasten it to the desired position.

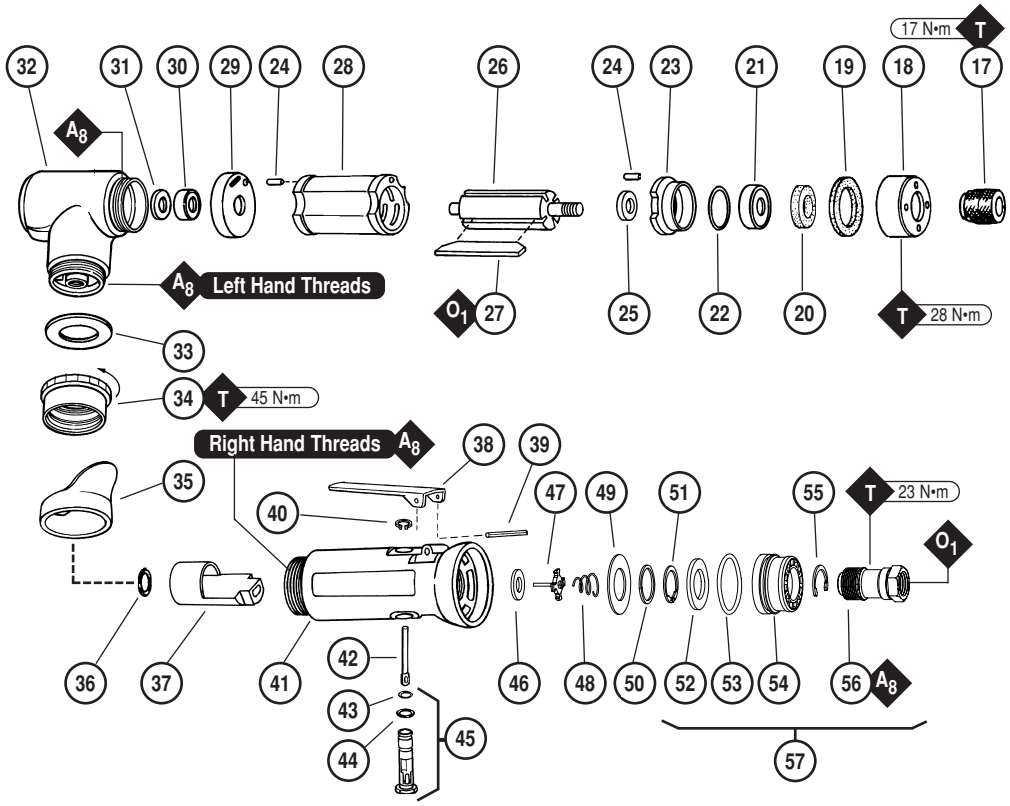
# Mini-Dynafile® II

## Complete Assembly Breakdown




**Note:** Shaded parts represent **15060** Housing Assembly.

## 04115 Air Motor




### Index Key

| No. | Part # | Description |
|---|---|---|
| 1 | **15058** | Captive Screw |
| 2 | **15057** | Belt Guard |
| 3 | **15059** | Cover Assembly |
| 4 | **15056** | Housing |
| 5 | **01788** | Motor Lock Screw |
| 6 | **40029** | Motor Lock |
| 7 | **04115** | Air Motor |
| 8 | **96086** | Roll Pin (3) |
| 9 | **15112** | Retainer Clip (2) |
| 10 | **15110** | Wiper (2) |
| 11 | **15108** | Knob |
| 12 | **15101** | Tension Arm |
| 13 | **11040** | Spring |
| 14 | **96085** | Spring (2) |
| 15 | **15105** | Support Shaft (2) |
| 16 | | Contact Arm Assy. (Refer to page 6) |
| 17 | **15118** | Drive Wheel |
| 18 | **15106** | Exhaust Cover |
| 19 | **15111** | Silencer |
| 20 | **01580** | Silencer |
| 21 | **02649** | Bearing |
| 22 | **54529** | Shim Pack (3/Pkg) |
| 23 | **01478** | Front Bearing Plate |
| 24 | **50767** | Pin (2) |
| 25 | **01479** | Spacer |
| 26 | **01475** | Rotor |
| 27 | **01480** | Blades (4) |
| 28 | **01476** | Cylinder |
| 29 | **02673** | Rear Bearing Plate |
| 30 | **02696** | Bearing |
| 31 | **02679** | Shield |
| 32 | **01546** | Housing |
| 33 | **01548** | Gasket |
| 34 | **01461** | Lock Nut |
| 35 | **01558** | Collar |
| 36 | **95523** | O-Ring |
| 37 | **01470** | Insert |
| 38 | **01448** | Throttle Lever |
| | **01462** | Safety Lock Lever |
| 39 | **12132** | Pin |
| 40 | **95558** | Retaining Ring |
| 41 | **02117** | Housing |
| 42 | **01449** | Valve Stem |
| 43 | **95730** | O-Ring |
| 44 | **01024** | O-Ring |
| 45 | **01469** | Speed Regulator Assembly (Includes O-Rings) |
| 46 | **01464** | Seal |
| 47 | **01472** | Tip Valve |
| 48 | **01468** | Spring |
| 49 | **01683** | Air Control Ring |
| 50 | **01564** | Spacer |
| 51 | **95711** | Retaining Ring |
| 52 | **01486** | Felt Silencer (4) |
| 53 | **96065** | O-Ring |
| 54 | **01446** | Air Deflector |
| 55 | **95620** | Retaining Ring |
| 56 | **01578** | Inlet Adapter |
| 57 | **94535** | Muffler Assembly |

**KEY**

- **O** Oil: **$O_1$ = Air Lube**
- **A** Adhesive: **$A_3$ = Loctite #242**, **$A_8$ = Loctite #567**, **$A_9$ = Loctite #587**
- **T** Torque: **N•m x 8.85 = In. - lbs.**
- **G** Grease: **$G_2$ = Loctite #771**

# *Disassembly/Assembly Instructions - Mini-Dynafile® II*

**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 **96074** 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 adapter stationary when removing the air supply connection.
2. Remove the **15057** Belt Guard, abrasive belt and contact arm assembly. Use a 3mm hex key to loosen the **01788** Motor Lock Screw and remove the **15060** Housing Assembly from the air motor.

## Motor Disassembly:

1. Place the **52296** Repair Collar around the **01546** Housing and fasten in a vise so that the **15118** Drive Wheel is pointing up.
2. Use the **50971** Lock Ring Tool or an adjustable 3mm pin spanner wrench to remove the **15106** Exhaust Cover by turning it counterclockwise. Remove the felt silencers.
3. Carefully pull the air motor out of the **01546** Housing. Remove the **02679** Shield.
4. Fasten the **96346** 2" Bearing Separator around the portion of the **01476** Cylinder that is closest to the **02673** Rear Bearing Plate. Place the bearing separator on the table of the **96232** #2 Arbor Press so that the drive wheel is pointing down. Use a 3/16" or 5mm diameter flat end drive punch as a press tool and push the rotor out of the **02696** Rear Bearing. Use the **96210** Bearing Removal Tool and the arbor press to remove the **02696** Bearing from the rear bearing plate.
5. Fasten the vane slot portion of the rotor in a vise with aluminum or bronze jaws so that the drive wheel is pointing up.
6. Use the **95262** 14mm Wrench to remove the **15118** Drive Wheel by turning it counterclockwise.
7. Remove the front bearing/plate, shims and **01479** Spacer.

**Motor Disassembly Complete.**

## Valve Disassembly:

1. Position the **52296** Repair Collar around the **02117** Housing and fasten the tool in a vise so that the **01578** Inlet Adapter is pointing up.
2. Remove the **01578** Inlet Adapter by turning it counterclockwise.
3. Use needle nose pliers to remove the **01468** Spring and the **01472** Tip Valve. Use a small screwdriver to remove the **01464** Seal.
4. Position the **02117** Housing so that the **12132** Pin, throttle lever, and **01449** Valve Stem can be removed.
5. Use retaining ring pliers to remove the **95558** Retaining Ring and then push the **01469** Speed Regulator Assembly out of the valve housing.

**Valve Disassembly Complete.**

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

## Valve Assembly:

1. Install the **01469** Speed Regulator Assembly (with o-rings) into the valve housing and hold it in place with the **95558** Retaining Ring.
2. Position the **52296** Repair Collar around the **02117** Housing and fasten the tool in a vise so that the **12132** Pin, throttle lever, and **01449** Valve Stem can be installed.
3. Position the **52296** Repair Collar around the **02117** Housing and fasten the tool in a vise so that the air inlet opening is pointing up.
4. Install the **01464** Seal into the **02117** Housing so that it is laying flat.
5. Use needle nose pliers to install the **01472** Tip Valve so that the metal pin passes through the hole in the **01449** Valve Stem.
6. Install the **01468** Spring so that the smaller end of the spring fits against the back of the tip valve.
7. Refer to the exploded view of the muffler assembly for the correct order of assembly.
8. Apply a small amount of the Loctite® #567 (or equivalent) to the external threads of the **01578** Inlet Adapter and install the **94535** Muffler Assembly onto the **02117** Housing. (Torque to 23N•m/200 in. lbs.)
9. Hold the tool air inlet adapter stationary with a wrench when attaching or installing the air supply connection.

**Valve Assembly Complete.**

## Motor Assembly:

1. Install the **01479** Spacer onto the rotor.
2. Select .003" (.08mm) thickness shims from the **54529** Shim Pack and install these into the **01478** Front Bearing Plate.
3. Install the **02649** 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. Install the **01580** Silencer around the rotor spindle. Install the **15111** Silencer into the **15106** Exhaust Cover and place these onto the rotor. Install the **15118** Drive Wheel. (Torque to 17N•m/150 in. lbs.) Remove the assembly from the vise.
6. Use a .001" (0.3mm) thick feeler gauge to check the clearance between the front bearing plate and the face of the rotor.
7. 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.
8. Lubricate the **01480** Blades (4) with the **95842** Dynabrade Air Lube 10W/NR (or equivalent) and install these into the rotor.
9. Install the **01476** Cylinder over the rotor so that the air inlet opening of the cylinder will line up with the air inlet opening in the **02673** Rear Bearing Plate.
10. Use the raised outer diameter of the **96216** Bearing Press Tool and the **94232** #2 Arbor Press to install the **02696** Bearing into the **02673** Rear Bearing Plate.
11. Use the raised inner diameter of the **96216** 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.
12. Apply a small amount of petroleum lubricant onto the seal of the **02696** Bearing and install the **02679** Shield so that it will stick against seal of the bearing.
13. Carefully slide the motor assembly into the **02117** Housing.
14. Use the **50971** Lock Ring Tool or a adjustable 3mm pin spanner wrench to fasten the **15106** Exhaust Cover onto the **02117** Housing. (Torque to 28N·m/250 in. lbs.)

**Motor Assembly Complete.**

## Throttle Positioning Procedure:

**Important: Carefully perform this procedure so as not to entirely separate the 01546 Housing from the 02117 Housing. Loosen the 01461 Lock Nut only enough to make the desired throttle lever adjustment.**

1. Place the **52296** Repair Collar around the **02117** Housing and fasten it in a vise so that the **01546** Housing is pointing up.
2. Slip the **01558** Collar down onto the **02117** Housing to expose the **01461** Lock Nut.
3. With a firm hold on the **01546** Housing use a 34mm or an adjustable wrench to turn the lock nut clockwise to loosen the **01546** Housing from the **02117** Housing.
4. Orient the throttle lever to the operators desired grip and positioning. **Note:** Allow for additional rotation of the **01546** Housing as the **01461** Lock Nut is tightened.
5. Grasp the **01546** Housing firmly to reduce it rotation. Use a 34mm or an adjustable wrench to tighten the **01461** Lock Nut. (Torque to 45 N•m/400 in. lbs.)

**(continued on next page)**

6. Slip the **01558** Collar back over the **01461** Lock Nut.

**Note:** The factory preset positioning for the throttle lever is the 11:00 position. This is in relation to the drive wheel positioning at 12:00.

**Throttle Positioning Procedure Complete.**

## Final Assembly:

1. Install the **15060** Housing Assembly onto the air motor and use a 3mm hex key to tighten the motor lock screw. Install the contact arm assembly, abrasive belt and **15057** Belt Guard.
2. With the air supply shut off, carefully connect the tool to the air supply hose. **Note:** Use a wrench to hold the air tool inlet adapter stationary when install the air supply connection.

**Final Assembly Complete. Tool Assembly Complete.**

**Please allow 30 minutes for the adhesives to cure before operating tool. Important: The motor should be tested for proper operation.**
Apply 3 Drops of the **95482** Dynabrade Air Lube 10W/NR (or equivalent) into the air inlet adapter with the throttle lever depressed. Carefully connect the tool to an air supply. The tool should operate within 10% of the maximum rated RPM. The tool RPM should not exceed the maximum rated RPM with an operating air supply pressure of 90 PSIG (6.2 bar g).

# *Preventative Maintenance Schedule*

*For All Mini-Dynafile® II Models*

**This service chart is published as a guide to expectant life of component parts. The replacement levels are based on average tool usage over one year. Dynabrade Inc. considers one year usage to be 1,000 hours.**

| 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. |



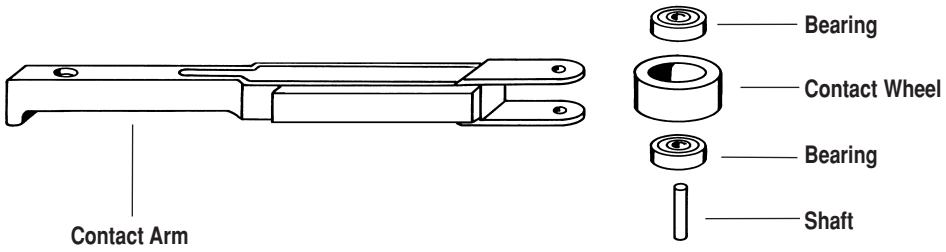
**96074 – Motor Tune-Up Kit**

| Index # | Part Number | Description | Number Required | High Wear 100% | Medium Wear 70% | Low Wear 30% | Non-Wear 10% |
|---|---|---|---|---|---|---|---|
| 1 | **15058** | Captive Screw | 1 | | | **D** | |
| 2 | **15057** | Belt Guard | 1 | | | | **L** |
| 3 | **15059** | Cover Assembly | 1 | | | **X** | |
| 4 | **15056** | Housing | 1 | | | **X** | |
| 5 | **01788** | Motor Lock Screw | 1 | | | **X** | |
| 6 | **40029** | Motor Lock | 1 | | | | **L** |
| 7 | **04115** | Air Motor | 1 | **N/A** | **N/A** | **N/A** | **N/A** |
| 8 | **96086** | Roll Pin | 3 | | | **X** | |
| 9 | **15112** | Retainer Clip | 2 | | | **X** | |
| 10 | **15110** | Wiper | 2 | | | **X** | |
| 11 | **15108** | Knob | 1 | | | | **X** |
| 12 | **15101** | Tension Arm | 1 | | | | **X** |
| 13 | **11040** | Spring | 1 | | | **X** | |
| 14 | **96085** | Spring | 2 | | | **X** | |
| 15 | **15105** | Support Shaft | 2 | | | **X** | |
| 16 | **See Note** | Contact Arm Assy. | 1 | **N/A** | **N/A** | **N/A** | **N/A** |
| 17 | **15118** | Drive Wheel | 1 | | | | **X** |
| 18 | **15106** | Exhaust Cover | 1 | | | | **X** |
| 19 | **15111** | Silencer | 1 | **T** | | | |
| 20 | **01580** | Silencer | 1 | **T** | | | |
| 21 | **02649** | Bearing | 1 | | **T** | | |
| 22 | **54529** | Shim Pack (3/Pkg) | 1 | | **T** | | |
| 23 | **01478** | Front Bearing Plate | 1 | | | **X** | |
| 24 | **50767** | Pin | 2 | | | | **X** |
| 25 | **01479** | Spacer | 1 | | | | **X** |
| 26 | **01475** | Rotor | 1 | **T** | | | |
| 27 | **01480** | Blades (4/Pkg) | 1 | | | **X** | |
| 28 | **01476** | Cylinder | 1 | | | | **X** |
| 29 | **02673** | Rear Bearing Plate | 1 | | **T** | | |
| 30 | **02696** | Bearing | 1 | | **T** | | |
| 31 | **02679** | Shield | 1 | | | | **X** |
| 32 | **01546** | Housing | 1 | | **T** | | |
| 33 | **01548** | Gasket | 1 | | | | **X** |
| 34 | **01461** | Lock Nut | 1 | | | **X** | |
| 35 | **01558** | Collar | 1 | | | **T** | |
| 36 | **95523** | O-Ring | 1 | | | **D** | |
| 37 | **01470** | Insert | 1 | | | **X** | |
| 38 | **See Note** | Throttle Lever | 1 | | | **X** | |
| 39 | **12132** | Pin | 1 | | **T** | | |
| 40 | **95558** | Retaining Ring | 1 | | | **T** | |
| 41 | **02117** | Housing | 1 | | | **X** | |
| 42 | **01449** | Valve Stem | 1 | | | **T** | |
| 43 | **95730** | O-Ring | 1 | | | **X** | |
| 44 | **01024** | O-Ring | 1 | | | **X** | |
| 45 | **01469** | Speed Regulator Assembly | 1 | | | **T** | |
| 46 | **01464** | Seal | 1 | | | **T** | |
| 47 | **01472** | Tip Valve | 1 | | | **T** | |
| 48 | **01468** | Spring | 1 | | | **T** | |
| 49 | **01683** | Air Control Ring | 1 | | | | **L** |
| 50 | **01564** | Spacer | 1 | | | **X** | |
| 51 | **95711** | Retaining Ring | 1 | | | **T** | |
| 52 | **01486** | Felt Silencer | 4 | **T** | | | |
| 53 | **96065** | O-Ring | 1 | | | **T** | |
| 54 | **01446** | Air Deflector | 1 | | | | **X** |
| 55 | **95620** | Retaining Ring | 1 | | | **T** | |
| 56 | **01578** | Inlet Adapter | 1 | | | **X** | |

**Note:** Please refer to pages 4 of tool manual for specific part number.

# *Mini-Dynafile® II Contact Arm Assemblies*

Contact Wheel Assembly Includes wheel, bearing and shaft.



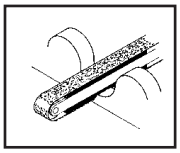

| Mini-Dynafile® II Standard Contact Arms | | | | | | |
|---|---|---|---|---|---|---|
| Part Number | Abrasive Belt Size | Contact Wheel Description | Contact Wheel Assembly | Contact Wheel Only | Bearing (2) Req. | Shaft |
| **15026** | 1/2" x 12" | 5/8" D x 3/8" W, Rubber | 11078 | 11077 | 11052 | 11054 |
| **15028** | 1/4" or 1/2" x 12" | 1" D x 3/8" W, Rubber | 11080 | 11079 | 11052 | 11054 |
| **15029** | 1/8" x 12" | 1" D x 3/8" W Urethane, Tapered | 11086 | 11085 | 11052 | 11054 |
| **15030** | 1/2" x 12" | 5/16" D x 3/8" W, Steel | 11068 | 11067 | 11051 | 11054 |
| **15031** | 1/2" x 13" | 7/16" D x 3/8" W, Rubber | 11070 | 11069 | 11051 | 11054 |

## Mini-Dynafile® II Standard Contact Arms

**Contact arms allow for 3" workable reach.**
Contact Wheels noted include bearing and shaft.

**15026** (Standard on all models).
Grind over contact wheel or platen.

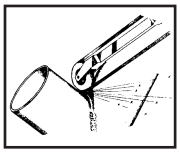




**Belt Size:** 1/2" wide x 12" long.
**11078 Contact Wheel:** 5/8" diameter x 3/8" wide, rubber.
**11026 Platen:** 1/2" wide.

**15029**
Grind corners, enter grooves, strap polish.

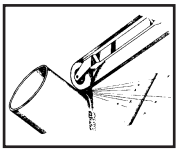


**Belt Size:** 1/8" wide x 12" long.
**11086 Contact Wheel:** 1" diameter x 3/8" wide, urethane.
**No Platen**

**15028**
Grind corners, enter grooves, strap polish.



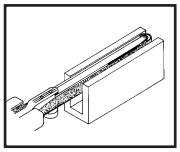


**Belt Size:** 1/4" or 1/2" wide x 12" long.
**11080 Contact Wheel:** 1" diameter x 3/8" wide, rubber.
**No Platen**

45 PSIG Max.

**15030**
Enter channels as narrow as 7/16".

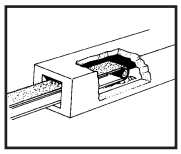




**Belt Size:** 1/2" wide x 12" long.
**11068 Contact Wheel:** 5/16" diameter x 3/8" wide, steel.
**11027 Platen:** 1/2" wide.

**15031**
**For 13" long belts**
Runs at 45 PSIG max.
Work on contact wheel or Dynapad.





**Belt Size:** 1/2" wide x 13" long.
**11070 Contact Wheel:** 7/16" diameter x 3/8" wide, rubber.
**11027 Platen:** 1/2" wide.

# Optional Accessories

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



**Composite Dynaswivel®**

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

- **94300:** 1/4" NPT.



**50971 Lock Ring Tool**

- Lock Ring Tool has a 3/8 in. square socket for use with 3/8 in. drive; breaker bar, ratchet head, or torque wrenches.



**Threaded Collet Inserts**

These uniquely designed inserts thread directly into the drive wheel.

**01644** – 1/4" insert
**01646** – 6mm insert
**01647** – 1/8" insert
**01648** – 3mm insert



**96216 Bearing Press Tool**

- This tool is designed to safely press a bearing into a bearing plate and onto a shaft.



**11288 Dynafile Contact Arm and Idler Wheel Repair Kit**

- Contains special tools to assist in the replacement of contact wheels and bearings.



**96074 Motor Tune-Up Kit:**

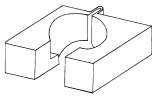
- Includes assorted parts to help maintain and repair motor.



**Dynabrade Air Lube**

- Formulated for pneumatic equipment.
- Absorbs up to 10% of its weight in water.
- 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)



**52296 Repair Collar**

- Specially designed collar for use in vise to prevents damage to valve body of tool during disassembly/assembly.



**96210 Bearing Removal Tool**

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

# Abrasives

*12" Long Abrasive Belts*

**Aluminum Oxide**

| Belt Width | Grit 40 | 60 | 80 | 120 | 180 | 220 | 320 |
|---|---|---|---|---|---|---|---|
| 1/8" | — | — | 92206 | 92207 | 92208 | 92209 | 92210 |
| 1/4" | 92105 | 92106 | 92107 | 92108 | 92118 | 92119 | 92120 |
| 1/2" | 92110 | 92111 | 92112 | 92113 | 92114 | 92115 | 92116 |

**Abrasive Impregnated Non-Woven Nylon**

| Belt Width | Super Fine Grey | Very Fine Blue | Medium Maroon | Coarse Brown |
|---|---|---|---|---|
| 1/2" | 90311 | 90312 | 90313 | 90314 |

## Reference Contact Information

1. **American National Standards Institute – ANSI**
   25 West 43rd Street
   Fourth 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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PD07.26_07/07