Electric Dynafile® II Abrasive Belt Tool

For Serial No. FC15000B and Higher

Safety, Operation and Maintenance – Save This Document and Educate All Personnel

Model	RPM	Volts (Amps)	Abrasive Range	Offering	
40610	10,500	120 (7.0)	1/4-3/4" x 18-34"	Standard	
40611			1/4-3/4 X 10-34	Versatility Kit	

SANDER / POLISHER



of alcohol or drugs.

Find The Most Current Offering of Support Documents and Accessories at www.Dynabrade.com

A WARNING

Read and understand this tool manual before operating your 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 International Electrotechnical Commission (IEC) 62841 series. For Safety information, refer to Code of Federal Regulation – CFR 29 Part 1910 and applicable State and Local Regulations



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.



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



Electric shock hazard. Avoid bodily contact with grounded objects, bodies of water. Do not damage cord set.

Practice safety requirements. Work alert, have proper

attire, and do not operate tools under the influence



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

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.

Caution: Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.

Tool Intent: Dynabrade Electric Dynafile® II used to sand, debur, blend and polish; metal, wood, stone, fiberglass or plastic surfaces.

GENERAL POWER TOOL SAFETY WARNINGS

WARNING Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work Area safety

- 1. Keep your work area clean and well lit. Cluttered or dark areas invite accidents.
- 2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which ignite the dust or fumes
- 3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- 1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- 2. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- 3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.

 Damaged or entangled cords increase the risk of electric shock.

(continued on next page)

Electrical Safety (Continued)

- 5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- 6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

Personal Safety

- 1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust masks, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injury.
- 3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- 4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- 7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

Power Tool Use and Care

- 1. Do not force the power tool. Use the correct power tool for your application. The correct tool will do the job better and safer at the rate for which it was designed.
- 2. Do not use the power tool if switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- 3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tool. Such preventative safety measures reduce the risk of starting the power tool accidentally.
- 4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- 5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- 6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be per formed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Service

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SPECIFIC SAFETY RULES

- 1. Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- 2. Use a vise or clamping device to restrain work piece.

(See Definitions for label symbols on pg. 3)

TOOL DESCRIPTION

Dynafile II - Is a electric hand tool with a moving narrow belt. Tool is equipped as shown on page 3.

ASSEMBLY and OPERATION INSTRUCTIONS

- 1. With power source disconnected from tool rotate head to desired position and tighten set screw with hex wrench provided to clamp.
- 2. Connect power source to tool. Be careful not to depress switch in the process.
- 3. Hold tool by the motor housing only. One or two hands may be used. Do Not hold tool by head/housing assembly. Keep hands away from all grinding/sanding edges and moving parts. A side handle is included for two hand operation of tool.
- 4. Depress switch to start tool. Switch can be locked with button on side of handle, depress switch to release.
- 5. Adjust belt tracking by turning 95218 Adjustment Knob to the left or right accordingly, so as abrasive belt rides evenly over contact arm.
- 6. Working off the return path of the abrasive belt will ensure superior tracking.

MAINTENANCE and ACCESSORY CARE 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 tool.

Routine Preventative Maintenance:

- Mineral spirits are recommended when cleaning the sanding heads. Do not use on electrical components or clean tool or parts with any
 solvents or oils containing acids, esters, ketones, chlorinated hydrocarbons or nitro carbons. Compressed air may be used to remove dirt
 from electrical components.
- <u>DO NOT</u> clean or maintain tools with chemicals that have a low flash point (example: WD-40[®]).
- 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)
- Visually inspect plugs and cords for frays, visible damage and signs of deterioration. Damaged or worn components must be replaced by Dynabrade to avoid a safety hazard.
- Brush Changing Unplug tool, remove rear housing and brushes. Install new brushes, and replace rear housing. Run tool for 20 minutes
 at free speed to seat brushes. Change brushes every 100 hrs. to ensure proper tool function. After changing brushes it is recommended to
 replace the right angle gear grease with 95544 Grease.
- After maintenance is performed on tool check for excessive tool vibration.
- Check for excessive current leakage at 550 volts with a current leakage checker on all screws and the gear case, if the electrical components have been disturbed during repair.

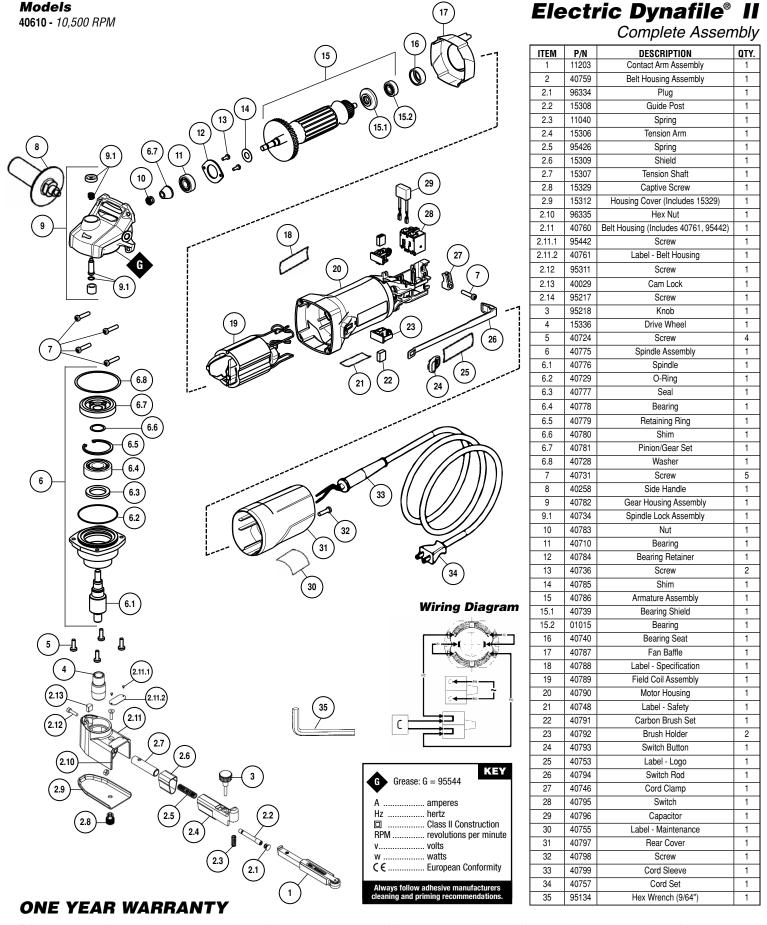
Handling and Storage of Tool and Accessories:

- Use of tool rests, hangers and/or balancers is recommended.
- <u>DO NOT</u> carry tool by cord.
- · 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.



Maintenance Instruction

Use compressed air to routinely blow off vents located at the rear of the housing. Compressed air pressure must not exceed 30 PSIG Maximum.



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, brushes, gears, etc., are not covered under this warranty.

MACHINE SPECIFICATIONS

Model	Speed	Power	Voltage	Current	Phase	Frequency	Max SFPM (SMPM)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
All Models	10,500 RPM	750 W	120 V (AC)	7 Amp	1	60 Hz	2,400 (732)	5 (2.3)	19 (483)	5.5 (140)

Additional Specifications: Abrasive Belt Size is 1/4"-3/4" (6-19 mm) W x 18"-34" (457-863 mm)

Visit dynabrade.com for your model's current vibration and sound data.

OPTIONAL ACCESSORIES/SPECIALTY REPAIR TOOL

Optional Replacement Motor Assembly

 Includes only the motor, does not include: 40759 Belt Housing Assembly, contact arm or drive wheel.

Part No. 40605



Ultra Grease

- High film strength; excellent resistance to water, steam, etc.
- Workable range 0° F to 300° F.

Part No. 95544: 2.5 oz

CONTACT ARMS FOR 4" TO 12" WORKABLE REACH



· Work on broad areas, leaves in-line scratch, blend stainless.

Part No. 11200 Belt Size: 1/2" W x 18" L.

Contact Wheel: 5/8" dia. x 3/8" W. rubber.

Platen: 1/2" wide.



• 45 PSI maximum. Enter channels as small as 7/16".

Part No. 11201

Belt Size: 1/2" W x 18" L.

Contact Wheel: 5/16" dia. x 3/8" W, steel.

Platen: 1/2" wide.



• Grind over contact wheel or platen.

Part No. 11203*

Order 11312 for heavy-duty version.

Belt Size: 1/2" W x 18" L.

Contact Wheel: 5/8" dia. x 3/8" W, rubber.

Platen: 1/2" wide.



· Strap polish is easy with this arm!

Part No. 11204 "Unique Offset Design" Belt Size: 1/4" or 1/2" W x 18" L. Contact Wheel: 1" dia. x 3/8" W, rubber. Platen: None due to offset design.



Part No. 11206*

Order 11326 for Heavy Duty/Steel Construction version.

Belt Size: 5/8" or 3/4" W x 18" L. Contact Wheel: 3/4" dia. x 5/8" W, rubber.

Platen: 3/4" wide.



· Grind corners, enter grooves, strap polish.

Part No. 11280 Belt Size: 1/4" W x 18" L. Contact Wheel: 1" dia. x 3/8" W,

urethane, tapered. Platen: No platen due to offset design.



• Optional 40078 Adapter allows use of 24" long belts; extends reach to 7" when used with contact arm.

*11024 steel platen available, 6-3/4" workable reach.

Part No. 11286 Belt Size: 1/2" W x 24" L.

Contact Wheel: 5/8" dia. x 3/8" W, rubber.

Platen: 1/2" wide.



· Grind on contact wheel or platen; has 5-1/4" workable reach.

Part No. 11287* (Uses 20-1/2" Belts) Belt Size: 5/8" or 3/4" W x 20-1/2" L. Contact Wheel: 3/4" dia. x 5/8" W, rubber.

Platen: 3/4" wide.



Rubber Work on broad areas; leaves in-scratch; blend stainless

> Part No. 11304 "The Banana Arm" Belt Size: 1/2" W x 18" L.

Contact Wheel: 5/8" dia. x 3/8" W, rubber.

Platen: 1/2" wide.



Prevent Undercutting

· Removes raised material within .020" or less without undercutting.

Belt Size: 1/2" W x 18" L. 60 to 80 grit. Contact Wheel: 5/8" dia. x 3/8" W, rubber.



· Excellent for cleaning oxide off electrical bus bars. Arm has 12" workable reach.

Part No. 11350* "Bus Bar" Belt Size: 3/4" W x 34" L.

Part No. 11322 Guide-Cut

Contact Wheel: 5/16" dia. x 5/8" W, steel.

Platen: 3/4" wide, optional.



• Offset design & miniature contact wheels. 2" strap polish in offset area; polish turbine blades & other contours.

Part No. 11220*, 11300*, 11301*, 11341*

Polish Turbine Blades

Belt Size: 11220 uses 5/8" or 3/4" W x 18" L.

All others use 1/2" W x 18" L

Contact Wheels description for each above arm:

11220: 5/16" dia. x 5/8" W, steel. 11300: 1/4" dia. x 3/8" W, steel. 11300: 5/16" dia. x 3/8" W, rubber. 11301: 5/16" dia. x 3/8" W, steel.

U.S. Government Publishing Office (GPO)

REFERENCE CONTACT INFORMATION

American National Standards Institute (ANSI) www.ansi.org

Compressed Air & Gas Institute (CAGI) www.cagi.org

European Committee for Standardization (PNEUROP) www.pneurop.org

International Organization of Standards (ISO) www.iso.org

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