

Auto File II

Abrasive Belt Tool

Parts Page Reorder No. APD13•04

Effective July, 2013

18100 - Supersedes APD08•06

18101 - Supersedes APD06•06

For Serial No. 13F2796A and Higher

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

Model	RPM	Belt Size
18100	20,000	1/2" W x 18" L
18101	20,000	3/4" W x 20-1/2" L

SANDER



Model 18100

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

⚠ WARNING

Read and understand this tool manual before operating your air tool. Follow all safety rules for the protection of operating personnel as well as adjacent areas. Always operate, inspect and maintain this tool in accordance with the American National Standards Institute (ANSI). Safety Requirements for the Use, Care and Protection of Abrasive Wheels – ANSI B7.1, Compressed Air and Gas Institute (CAGI) Safety Code for Portable Air Tools – B186.1, Code of Federal Regulation – CFR 29 Part 1910, International Organization for Standardization (ISO) Hand Held Non-Electric Power Tools – ISO 11148, Safety Requirements 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 statutes, ordinances and/or regulations.



Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.



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 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 and OPERATING INSTRUCTIONS



Carefully Read and Understand the General and Sander sections found in Tool Safety and Operating Guidelines (PN00001676) Before Handling or Using Tool.

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: Auto File II are used for grinding, deburring, blending and polishing on various materials. Tool accepts optional abrasive belts that are 1/8"–3/4" wide and up to 20-1/2" long.

DO NOT USE Tool for Anything Other Than Its Intended Applications.

Training: Proper care, maintenance, and storage of your air tool will maximize tools performance and reduce chance for accident.

Employer's Responsibility: Provide operators with safety instructions and training for safe use of tools and accessories.

Report to Your Supervisor any Condition of the Tool, Accessories or Operation you Consider Unsafe.

MAINTENANCE INSTRUCTIONS

Important: To keep tool safe, a Preventative Maintenance Program is recommended. The program should include inspection of the tool and all related accessories and consumables, including air lines, pressure regulators, filters, oilers, etc. refer to CAGI B186.1 for additional maintenance information. If accessory or tool breakage occurs, investigate failure to determine the cause and correct before issuing tool for work. Use the following schedule as a starting point in developing a Preventative Maintenance Program. If tool does not operate properly (RPM, Vibration, Start/Stop) after these scheduled checks or at any time, the tool must be repaired and corrected before returning tool to use.

INSTALLATION

- To ensure long life and dependable service, use a Closed Loop Air System and Filter-Regulator-Lubricator as diagramed below.
- Each tool should have its own dedicated hose connected to an air supply manifold. Quick disconnects should be installed at the manifold in an effort to reduce contamination into the 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.
- 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**: 1pt/473ml) is recommended.

MAINTENANCE SCHEDULE

Daily (every 8 hours):

- Inspect tool and accessories for damage or broken parts. Replace items as necessary to ensure proper operation and safety.
- Lubricate motor as recommended. Use Dynabrade Air Lube (P/N **95842**: 1pt/473ml) 10W/NR. (1 Drop per minute of air lube per 20 SCFM.)
- Check air line pressure with a gage. (MAX. 90 PSIG or 6.2 Bar operating pressure at the air inlet of the tool.)
- Right angled gear and wick system through gear case grease fitting with 3 plunges of gear oil (P/N **95848**) and grease gun (P/N **95541**). (Prime grease gun prior to greasing.)
- Check tool for proper operation: If operating improperly or demonstrates unusual vibration, the tool must be serviced and problem corrected before further use.

Every 20 Hours or Once a Week Which Ever Comes First:

- Check free speed of tool without the abrasive accessory mounted. Measure RPM (speed) with tachometer and with air pressure set at 90 PSIG while the tool is running. If a governed tool is operating at a higher speed than the RPM marked on the tool housing, the tool must be serviced and corrected before use. A non-governed tool may exceed the RPM marked on the tool by 10% when operated at free speed with no accessories.
- If tool is running fast look for worn, damaged or missing governors, air control rings and silencers. Special care must be taken when servicing

governors and speed control devices. Injection molded governor assemblies are non-serviceable and must be replaced.

- If tool is running slow look for clogged inlet screen, air stream, silencer(s) or a malfunctioning governor (see concerns for servicing governors). Service as required.

Every 50 Hours:

- Lubricate planetary gears through gear case grease fitting with 3 plunges of grease (P/N **95542**) and grease gun (P/N **95541**). (Prime grease gun prior to greasing.)

REPAIR

- Use only genuine Dynabrade replacement parts to ensure quality. To order replacement parts, specify Model#, Serial# and RPM of your air tool.
- 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®).
- Motor Tune-Up Kit are available (when applicable) which includes high wear and medium wear motor parts.
- Air tool markings must be kept legible at all times, if not, reorder housing and replace. User is responsible for maintaining specification information.
- After maintenance is performed on tool, add a few drops of Dynabrade Air Lube (P/N **95842**) to the tool inlet and start the tool a few times to lubricate air motor. Verify RPM (per 20 hr maintenance schedule), vibration and operation.

HANDLING & STORAGE

- Use of tool rests, hangers and/or balancers is recommended.
- Protect tool inlet from debris (see Notice).
- DO NOT carry tool by air hose or near the tool throttle lever.
- Store accessories in protective racks or compartments to prevent damage.
- Follow the handling instructions outlined in the operating instructions when carrying the tool and when changing accessories.
- Protect accessories from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.

END OF USE/DISPOSAL

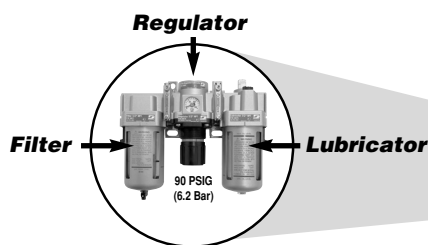
When tool has reached its end of useful service, disassemble tool into its primary components (i.e. steel, aluminum and plastic part) and recycle or discard per local, state and/or federal regulations as to not harm the environment.

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.

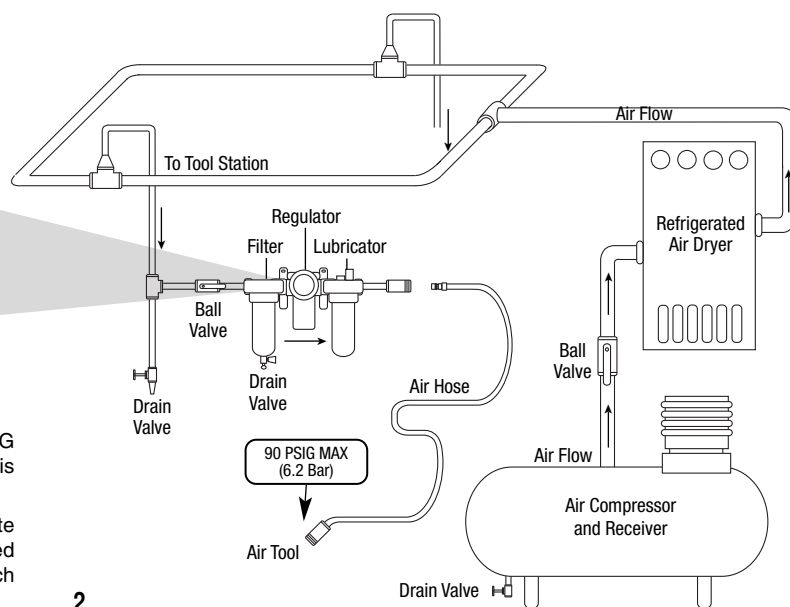
AIR SYSTEM

Closed Loop Pipe System, Sloped in Direction of Air Flow



LUBRICATOR SETTING
1 DROP/MIN.
20 SCFM

- 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.

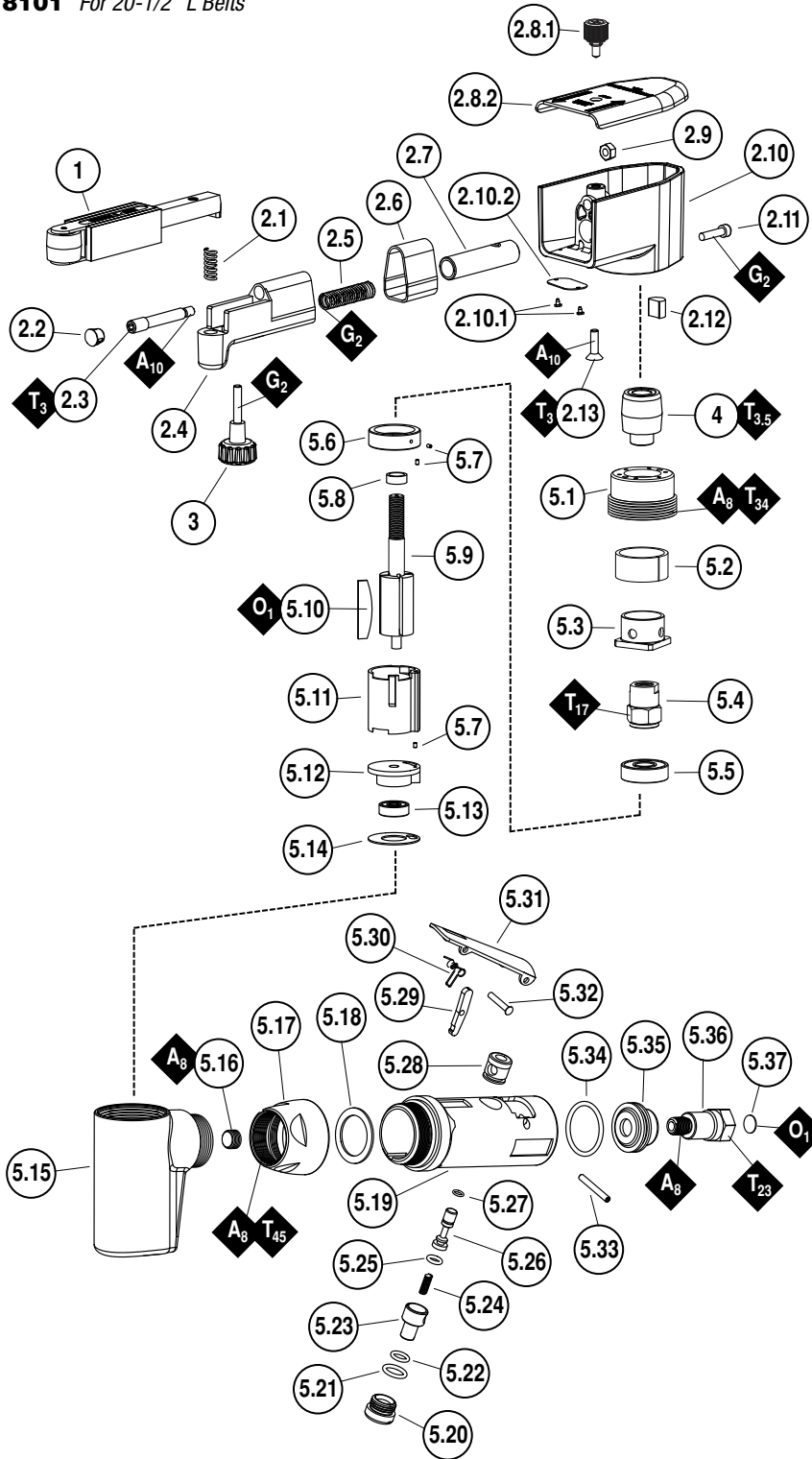


Model

18100 For 18" L Belts

18101 For 20-1/2" L Belts

Auto File II
Complete Assembly



KEY	
O	Oil: O ₁ = Air Lube
G	Grease: G ₂ = Loctite® #771
A	Adhesive: A ₈ = Loctite® #567 A ₁₀ = Loctite® #243
T_x	X = Torque Value (N•m)
T	Torque: N•m x 8.85 = lb•in.

Always follow adhesive manufacturers cleaning and priming recommendations.

ITEM	P/N	DESCRIPTION	QTY.
1	11203 11287	CONTACT ARM - 18100 CONTACT ARM - 18101	AR
2	18138 18139	HOUSING ASSEMBLY - 18100 HOUSING ASSEMBLY - 18101	AR
2.1	11040	SPRING	1
2.2	96334	PLUG	1
2.3	15308	GUIDE POST	1
2.4	15306	TENSION ARM	1
2.5	95426	SPRING	1
2.6	15309	DUST COVER	1
2.7	15307	TENSION SHAFT	1
2.8	15312	BELT GUARD ASSEMBLY	1
2.8.1	15329	SCREW	1
2.8.2	15310	BELT GUARD	1
2.9	96335	NUT	1
2.10	18136 18137	BELT HOUSING - 18100 BELT HOUSING - 18101	AR
2.10.1	95442	SCREW	2
2.10.2	18133 18134	LABEL - 18100 LABEL - 18101	1
2.11	95311	SCREW	1
2.12	40029	MOTOR LOCK	1
2.13	95217	SCREW	1
3	95218	KNOB	1
4	40375	DRIVE WHEEL	1
5	18851	MOTOR ASSEMBLY	1
5.1	18864	LOCK RING	1
5.2	18863	FELT SILENCER	1
5.3	18862	AIR CONTROL RING	1
5.4	18861	ROTOR NUT	1
5.5	01007	BEARING	1
5.6	18874	FRONT BEARING PLATE	1
5.7	18821	PIN	3
5.8	18825	SPACER	1
5.9	18870	ROTOR	1
5.10	18823	VANE SET (4/PKG.)	1
5.11	18822	CYLINDER	1
5.12	18820	REAR BEARING PLATE	1
5.13	01015	BEARING	1
5.14	18869	GASKET	1
5.15	18865	AIR MOTOR HOUSING	1
5.16	18867	PLUG	1
5.17	18446	LOCK RING	1
5.18	18866	WASHER	1
5.19	18400	THROTTLE HOUSING	1
5.20	18420	VALVE SCREW	1
5.21	18419	O-RING	1
5.22	18418	O-RING	1
5.23	18417	REGULATOR	1
5.24	18416	SPRING	1
5.25	18415	O-RING	1
5.26	18413	VALVE STEM	1
5.27	18414	O-RING	1
5.28	18412	BUSHING	1
5.29	18411	STOP ROD	1
5.30	18410	SPRING	1
5.31	18408	THROTTLE LEVER	1
5.32	18409	PIN	1
5.33	18407	PIN	1
5.34	18403	O-RING	1
5.35	18868	EXHAUST PLUG	1
5.36	18405	AIR INLET	1
5.37	18439	FILTER	1

AR - "As Required"

MACHINE SPECIFICATIONS

Model	Speed	Power	Sound	Air Consumption	Belt Size	Weight	Length	Height
18100	20,000 RPM	.5 hp (373 W)	81 db(A)	22 SCFM (623 LPM)	1/2" W x 18" L	2.55 lb. (1.15 kg)	15" (381 mm)	5.3" (143 mm)
18101	20,000 RPM	.5 hp (373 W)	81 db(A)	22 SCFM (623 LPM)	3/4" W x 20-1/2" L	2.63 lb. (1.19 kg)	16.3" (414 mm)	5.3" (143 mm)

Additional Specifications: Air Inlet Thread 1/4" NPT • Hose I.D. 3/8" (10 mm)

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

OPTIONAL ACCESSORIES



Motor Tune-Up Kit

- Includes assorted parts to help maintain and repair motor.

Part No. 96675



Dynabrade Air Lube

- For pneumatic equipment.
- Absorbs up to 10% of its weight in water.
- Prevents rust and formation of sludge.

Part No. 95821 4 oz.

Part No. 95842 1 pt.



"Mega Flow" Plug

- Provides up to twice the air flow compared to standard plug design.
- Plug has "ported" design to prevent "starving" of the air tool.

Part No. 95675 Male



Dynaswivel®

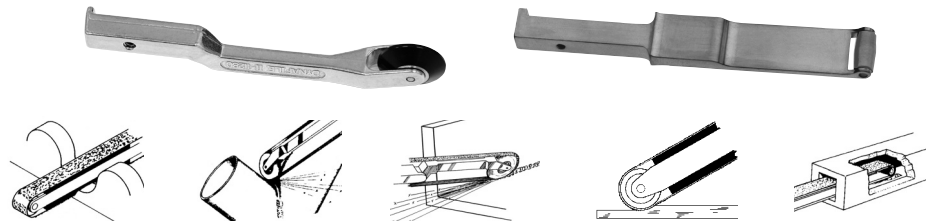
- Composite construction.
- 1/4" NPT.
- Swivels 360° at two locations which allows an air hose to drop straight to the floor.

Part No. 94300

OPTIONAL CONTACT ARMS

Dynabrade offers a wide variety of contact arms designed for unique applications and different uses. These designs include different size contact wheels, longer length arms and belt tracking options.

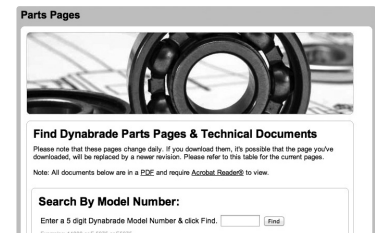
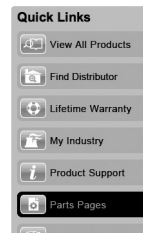
For a complete representation of optional contact arms and accessories look in Dynabrade Catalogs and Product Literature.



PARTS PAGES/TECHNICAL DOCUMENTS

Visit Dynabrade.com to access: Assembly/Disassembly Instructions, Special Repair Tools, Tune-Up Kits, Accessories and Component Wear Percentages.

To access these documents and more, use the Quick Links section on the left side of Dynabrade.com and select Parts Pages. Search by any model number and the latest support documents will be available for your use.



REFERENCE CONTACT INFORMATION

American National Standards Institute (ANSI)
1899 L Street, NW, 11th Floor • Washington, DC 20036
Tel: 1 (202) 293-8020

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

Government Printing Office (GPO)
Superintendent of Documents • Attn: New Orders
P.O. Box 371954 • Pittsburgh, PA 15250-7954 • Tel: 1 (202) 512-1803

International Organization of Standards (ISO)
Case postale 56 • CH-1211 Geneva 20
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