Long Board Sander
Dual Piston

AUTOMOTIVE
Parts Page Reorder No. APD09•01
Effective January, 2009

Air Tool Manual – Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

Model:
18066 – 2-3/4" x 16"

⚠ 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 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: Long Board Sander is used for sanding and finishing a variety of materials including wood, metal, plastic, fiberglass, solid surfaces, 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 Long Board Sander operators with safety instructions and training for safe use of tools and accessories.

Accessory Selection:

- Abrasive/accessory speed rating MUST be approved for AT LEAST the tool Strokes Per Minute (SPM) rating.

(continued on next page)

SAFETY INSTRUCTIONS (Continued)

- Before mounting an accessory, visually inspect for defects. Do not use defective accessories.
- 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) or 150 percent of the maximum pressure produced in the system, whichever is higher.

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. A vibration level of 19.4 (m/s^2) was established.

• DO NOT use quick disconnect coupling at tool. Always separate tool from quick disconnect coupling with at least 12" of air hose.

Warning: Be sure that any loose clothing, hair and all jewelry is properly restrained.

- keep hand and clothing away from moving end of the air tool which has a potential hazard of cutting and severing.
- Install air fitting into inlet bushing of tool. Important: Secure inlet bushing of tool with a wrench before attempting to install the air fitting to avoid damaging valve body housing.

Warning: Regularly check free speed (SPM) of Long Board Sander. The speed (SPM) is checked with the back-up pad securely fastened without any type of sanding accessory attached to the back-up pad. The air pressure must be set to 90 PSIG with the tool running. Checking the SPM requires a strobe tachometer. This procedure is required after all tool repairs and whenever a tool is issued for use. If tool is operating at a higher speed than the SPM marked on the tool housing, or operating improperly, the tool must be serviced and corrected before use.

Warning: Tool must never exceed abrasive/accessory SPM rating. Check accessory manufacturer for details on maximum operating speed or special mounting instructions.

Warning: Always start the tool with the sanding abrasive against the work. Stop the air flow to the tool as it is removed from the work.

- 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 reassembling tool, the tool 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.

Warning: Use only appropriately sized abrasives properly secured and centered to the backing pad provided with the Long Board Sander.

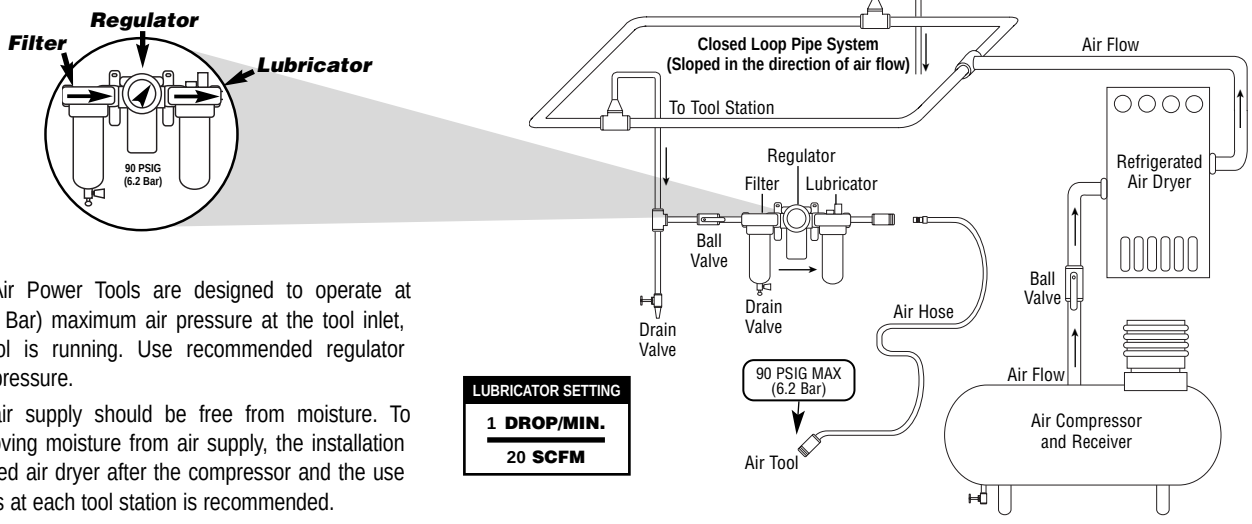
- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris.

Warning: 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.

- Proceed with caution in unfamiliar surroundings. Hidden hazards may exist, such as electricity or other utility lines.
- Use only Dynabrade lubricants. See Maintenance Instructions.
- Use a vise or clamping device to hold work piece firmly in place.
- Work may generate hazardous dust.
- Always be aware of bystanders in work areas.
- DO NOT apply excessive force on tool or apply “rough” treatment to it.
- Always work with a firm footing, posture and proper lighting.
- Release the throttle lever in case of an interruption of the energy supply.
- Ensure that sparks and debris resulting from work do not create a hazard such as a fire or explosion.
- Exhaust air may contain lubricants, grease, and other materials flushed through the tool.

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

Air System



- 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.

Long Board Sander

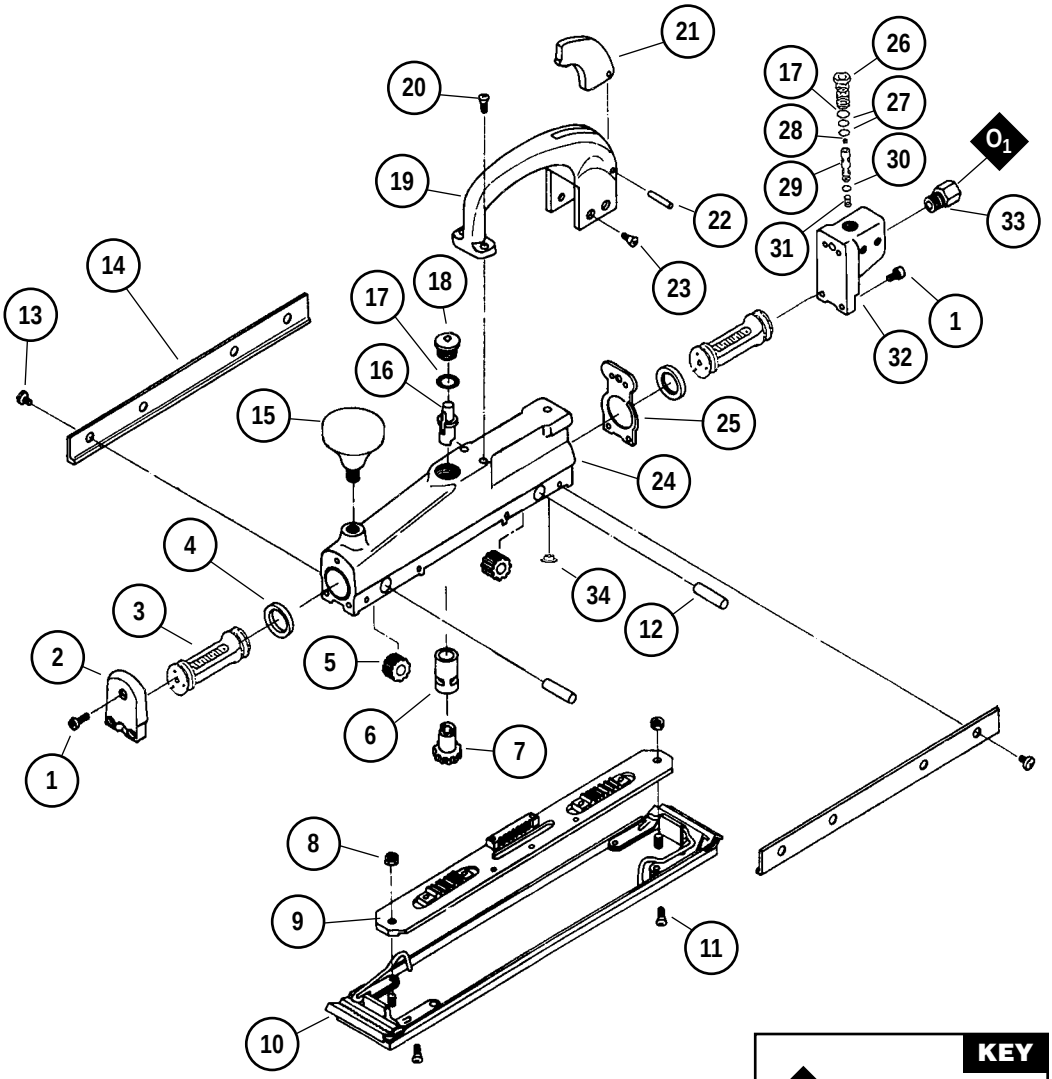
Complete Assembly

***Model:* 18066**

Index Key

No.	Part #	Description
1	**06060**	Screw (7)
2	**06101**	Front Cap
3	**06062**	Piston (2)
4	**06064**	Piston Ring (2)
5	**06071**	Gear (2)
6	**06076**	Valve
7	**06077**	Actuator Gear
8	**06085**	Nut (2)
9	**06087**	Carrier
10	**06088**	Pad Assembly
11	**06098**	Screw (2)
12	**06072**	Gear Shaft (2)
13	**06090**	Screw (8)
14	**06089**	Side Strap (2)
15	**06067**	Knob
16	**06075**	Adjusting Shaft
17	**06074**	O-Ring (2)
18	**06073**	Plunger
19	**06080**	Handle
20	**06081**	Screw (2)
21	**06082**	Trigger
22	**06083**	Pin
23	**06084**	Screw (4)
24	**06066**	Housing
25	**06091**	Rear Gasket
26	**06102**	Valve Bushing
27	**06103**	O-Ring (2)
28	**06061**	Set Screw
29	**06100**	Valve Stem
30	**06095**	O-Ring
31	**06096**	Spring
32	**06092**	Rear Cap
33	**06099**	Inlet Adapter
34	**06068**	Wear Button (8)

Note: To order replacement parts specify the **Model #**, **Serial #** and **SPM** of your air tool.



Machine Specifications

Model Number	Motor SPM	Stroke Length Inch (mm)	Sound Level	Max. Air Flow SCFM (LPM)	Air Pressure PSIG (Bars)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)	Paper Size Inch
18066	2,500	1 (25)	93 dB(A)	14 (396)	90 (6.2)	5.6 (2.5)	16 (406)	6-1/8 (156)	2-3/4 x 17-1/2

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

Maintenance Instructions

Important: To keep tool safe 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 **SPM** of your air tool.
- It is strongly recommended that all Dynabrade 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.
- 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 Long Board Sander regularly using a strobe tachometer without abrasive accessory attached with 90 PSIG at inlet while tool is running. Always check tool speed after any maintenance or repair. If tool is operating at a higher SPM (speed) than marked on the housing, or operating improperly, the tool must be corrected before use.

- 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®).
- Air tool stampings must be kept legible at all times, if not, reorder and replace. User is responsible for maintaining specification information. i.e.: Model #, S/N, and SPM.
- 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:

- Protect tool inlet from debris.
- 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.

Autobrade Red Tool Warranty

Following the reasonable assumption that any inherent defect which might prevail in a product will become apparent to the user within **6 months** from the of date purchase, "Autobrade Red" tools are warranted against defects in workmanship and materials under normal use and service.

We shall, at our option, repair or replace at our factory, any "Autobrade Red" tool which shall, within 6 months after delivery to the original purchaser, indicate upon our examination to have been defective.

Our obligation is contingent upon proper use of "Autobrade Red" tools in accordance with factory recommendations, instructions and practices.

The warranty shall not apply in these cases:

1. Normally wearable parts such as bearings, rotor blades, etc.
2. Consumables such as sanding pads, etc.
3. Misuse, neglect in maintaining tool or tool modification.
4. Lack of lubrication or evidence of rust, dirt or corrosion.
5. Tools requiring normal tune-up or cleaning.
6. Tools being used after they are badly worn such as using ratchet with worn yoke.
7. Ratchets, anvils damaged by excessive hand torquing.
8. Use in production-type applications.