

**OPERATOR'S MANUAL FOR  
AirVANTAGE™ 10,000 RPM  
3 in. (77 mm) BUFFER**



<p><b>Declaration of conformity</b> AirVANTAGE™ Tools 10018 Lower Azusa Road, Unit #C; El Monte, California 91731 USA declare on our sole responsibility that the products 3 in. Buffer (See "Product Configuration/Specifications" Table for particular Model) to which this declaration relates is in conformity with the following standard(s) or other normative document(s) EN ISO 15744:2002. Following the provisions of 89/392/EEC as amended by 91/368/EEC &amp; 93/44/EEC 93/68/EEC Directives and consolidating Directive 98/37/EC</p>								
Place and date of issue	Name	Signature or equivalent marking of authorized person						
<p><b>Operator Instructions</b> Includes – Please Read and Comply, Proper Use of Tool, Warranty, Product Configuration and Specifications Table, Parts Page, Parts List, Back-Up Pads, Work Stations, Putting the Tool Into Service, Operating Instructions and Compressor Layout.</p>	<p><b>Important</b> Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe accessible location.</p>							
<p><b>Manufacturer/Supplier</b> AirVANTAGE™ Tools 10018 Lower Azusa Road; Unit #C; El Monte, California 91731 USA Tel: (626) -575-4568 Fax: (626)-575-4968</p>	<p align="center"><b>Required Personal Safety Equipment</b></p> <table border="0"> <tr> <td>Safety Glasses</td> <td>Breathing Masks</td> </tr> <tr> <td>Safety Gloves</td> <td>Ear Protection</td> </tr> </table>		Safety Glasses	Breathing Masks	Safety Gloves	Ear Protection		
Safety Glasses	Breathing Masks							
Safety Gloves	Ear Protection							
<p><b>Recommended Airline Size - Minimum</b> 10 mm                      3/8 in</p>	<p><b>Recommended Maximum Hose Length</b> 8 meters                      25 feet</p>	<p align="center"><b>Air Pressure</b></p> <table border="0"> <tr> <td>Maximum Working Pressure</td> <td>6.2 bar</td> <td>90 psig</td> </tr> <tr> <td>Recommended Minimum</td> <td>NA</td> <td>NA</td> </tr> </table>	Maximum Working Pressure	6.2 bar	90 psig	Recommended Minimum	NA	NA
Maximum Working Pressure	6.2 bar	90 psig						
Recommended Minimum	NA	NA						

**Please Read and Comply with:**

- 1) General Industry Safety & Health Regulations, Part 1910, OSHA 2206, available from: Superintendent of Documents; Government Printing Office; Washington DC 20402
- 2) Safety Code for Portable Air Tools, ANSI B186.1 available from: American National Standards Institute, Inc.; 1430 Broadway; New York, New York 10018
- 3) State and Local Regulations.

**Proper Use of Tool**

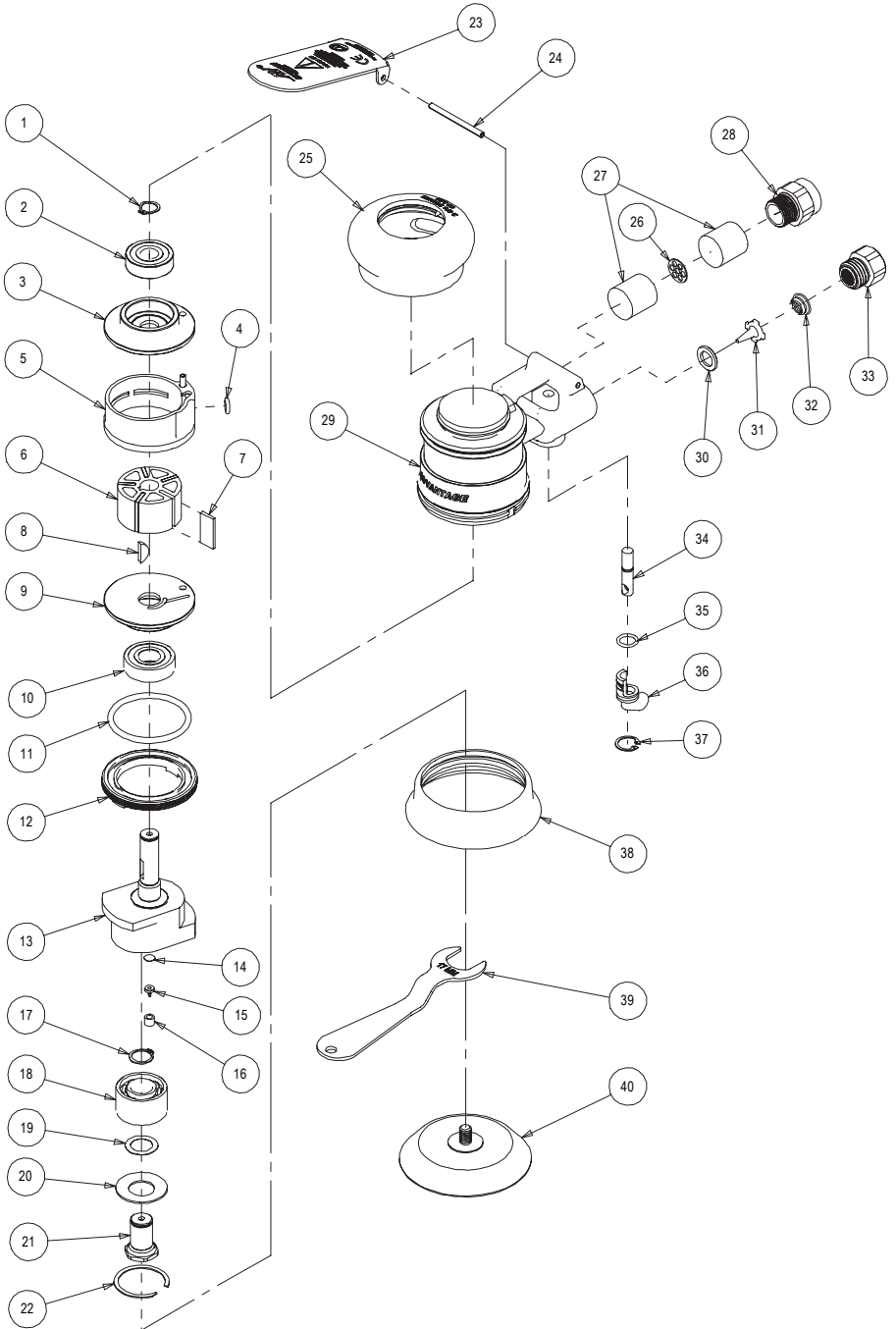
This buffer is designed for buffing all types of materials i.e. metals, wood, stone, plastics, etc. using abrasive designed for this purpose. Do not use this buffer for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier.

Do not use back-up pads that have a working speed less than 10,000 RPM free speed. Never use back-up pads that have a weight and/or size different than the machine was specifically designed for.

**AirVANTAGE™ Warranty**

All AirVANTAGE™ Buffers are warranted for defects in materials or workmanship for one year from the date of delivery to the user. Combined with the AirVANTAGE™ name, this Warranty expresses our total confidence in the superior quality, durability, and performance of the AirVANTAGE™ Buffer To receive any expressed or implied warranty, tool must be repaired by an authorized AirVANTAGE™ Service Center. The "Service Instructions" section in this document is provided for use after completion of the warranty period. To receive warranty, tools must be operated under the conditions as described in the "Putting the Tools into Service" section of this document and be connected to an air supply system as shown in Figure 1. Tools that have been exposed to extreme conditions will be covered under warranty at the sole discretion of AirVANTAGE™

# Parts Page



# Parts List

Item	Part Number	Description	Qty
1	AVA0040	EXTERNAL RETAINING RING	1
2	AVA0021	BEARING - 2 SHIELDS	1
3	AVA0065	REAR ENDPLATE	1
4	AVA0042	O-RING	1
5	AVA0067	CYLINDER ASSEMBLY	1
6	AVB0005	ROTOR	1
7	AVA0010	VANE	5
8	AVA0041	WOODRUFF KEY	1
9	AVA0064	FRONT ENDPLATE	1
10	AVA0019	BEARING - 2 SHIELDS	1
11	AVA0045	O-RING	1
12	AVA0001	LOCK RING	1
13	AVB0314	SHAFT BALANCER - 20.0 mm MOTOR	1
14	AVA0122	FILTER	1
15	AVA0121	DUCKBILL CHECK VALVE	1
16	AVA0120	VALVE RETAINER	1
17	AVA0090	RETAINING RING	1
18	AVA0938	DOUBLE ROW ANGULAR CONTACT BEARING - 1 SEAL	1
19	AVA0016	SPACER	1
20	AVA0017	BELLEVILLE WASHER	1
21	AVB0312	SPINDLE	1
22	AVA0018	RETAINING RING	1
23	AVA1308	THROTTLE LEVER	1
24	AVA0031	LEVER SPRING PIN	1
25	AVB0007	2 1/2 in. GRIP (65 mm)	Optional
25	AVB0008	2 3/4 in. GRIP (69 mm)	1
25	AVB0009	3 in. GRIP (75 mm)	Optional
26	AVA0038	MUFFLER PLATE	1
27	AVA0032	MUFFLER INSERT	2
28	AVA0166	MUFFLER HOUSING	1
29	AVA0230	HOUSING	1
30	AVA0009	VALVE SEAT	1
31	AVA0007	VALVE	1
32	AVA0014	VALVE SPRING	1
33	AVA0013	INLET BUSHING ASSEMBLY	1
34	AVA0008	VALVE STEM ASSEMBLY	1
35	AVA0043	O-RING	1
36	AVB0014	SPEED CONTROL	1
37	AVA0039	INTERNAL RETAINING RING	1
38	AVC0046	NON-VAC SHROUD	1
39	AVA0146	17 mm WRENCH	1
40	N/A	1 BACK-UP PAD SUPPLIED WITH EACH TOOL (TYPE DETERMINED BY MODEL)	1

## Product Configuration and Specifications: 10,000 RPM, 3 in. Buffer

Orbit	Pad Face	Vac Type	Model No.	Pad Part Number	Product Net Weight Pound (kg)	Height inch (mm)	Length inch (mm)	Power HP (watts)	Air Consumption scfm (LPM)	*Noise Level dBA	*Vibration Level m/s <sup>2</sup>
3/8 in. (10.0 mm)	J-Hook	Non-Vacuum	030501	1232102		3.3 (82.7)	5.0 (126.9)	.24 (179)	17 (481)		

Specifications subject to change without prior notice.

\*The values stated in the table are from laboratory testing in conformity with stated codes and standards and are not sufficient for risk evaluation. Values measured in a particular work place may be higher than the declared values. The actual exposure values and amount of risk or harm experienced to an individual is unique to each situation and depends upon the surrounding environment, the way in which the individual works, the particular material being worked, work station design as well as upon the exposure time and the physical condition of the user. AirVANTAGE™ cannot be held responsible for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

Further occupational health and safety information can be obtained from the following websites:

<http://europe.osha.eu.int> (Europe)

<http://www.osha.gov> (USA)

## Work Stations

The tool is intended to be operated as a hand held tool. It is always recommended that the tool be used when standing on a solid floor. It can be in any position but before any such use, the operator must be in a secure position having a firm grip and footing and be aware that the buffer can develop a torque reaction. See the section "Operating Instructions".

## Putting the Tool into Service

Use a clean lubricated air supply that will give a measured air pressure at the tool of 90 psig (6.2 bar) when the tool is running with the lever fully depressed. It is recommended to use an approved 3/8 in. (10 mm) x 25 ft (8 m) maximum length airline. It is recommended that the tool be connected to the air supply as shown in Figure 1.

Do not connect the tool to the airline system without incorporating an easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator and lubricator (FRL) be used as shown in Figure 1 as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used then the tool should be manually lubricated.

To manually lubricate the tool, disconnect the airline and put 2 to 3 drops of suitable pneumatic motor lubricating oil such as Fuji Kosan FK-20, Mobil ALMO 525 or Shell TORCULA® 32 into the hose end (inlet) of the machine. Reconnect tool to the air supply and run tool slowly for a few seconds to allow air to circulate the oil. If the tool is used frequently, lubricate it on a daily basis or lubricate it if the tool starts to slow or lose power.

It is recommended that the air pressure at the tool be 90 PSI (6.2 Bar) while the tool is running so the maximum RPM is not exceeded. The tool can be run at lower pressures but should never be run higher than 90 PSI (6.2 Bar). If run at lower pressure the performance of the tool is reduced.

## Operating Instructions

- 1) Read all instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules. All service and repair must be carried out by trained personnel.
- 2) Make sure the tool is disconnected from the air supply. Select a suitable abrasive and secure it to the back-up pad. Be careful and center the abrasive on the back-up pad.
- 3) Always wear required safety equipment when using this tool.
- 4) When sanding always place the tool on the work then start the tool. Always remove the tool from the work before stopping. This will prevent gouging of the work due to excess speed of the abrasive.
- 5) Always remove the air supply to the buffer before fitting, adjusting or removing the abrasive or back-up pad.
- 6) Always adopt a firm footing and/or position and be aware of torque reaction developed by the buffer
- 7) Use only correct spare parts.
- 8) Always ensure that the material to be sanded is firmly fixed to prevent its movement.
- 9) Check hose and fittings regularly for wear. Do not carry the tool by its hose; always be careful to prevent the tool

from being started when carrying the tool with the air supply connected.

- 10) Do not exceed maximum recommended air pressure. Use safety equipment as recommended.
- 11) The tool is not electrically insulated. Do not use where there is a possibility of coming into contact with live electricity, gas pipes, water pipes, etc. Check the area of operation before operation.
- 12) Take care to avoid entanglement with the moving parts of the tool with clothing, ties, hair, cleaning rags, etc. If entangled, it will cause the body to be pulled towards the work and moving parts of the machine and can be very dangerous.
- 13) Keep hands clear of the spinning pad during use.
- 14) If the tool appears to malfunction, remove from use immediately and arrange for service and repair.
- 15) Do not allow the tool to free speed without taking precautions to protect any persons or objects from the loss of the abrasive or pad.

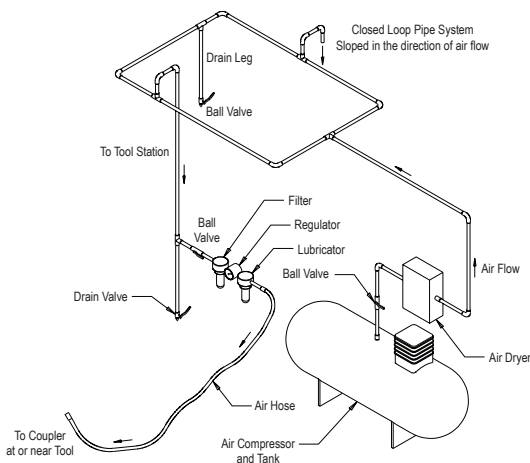


Figure 1

## AirVANTAGE™ Back-Up Pads

AirVANTAGE™ back-up pads are perfectly mated for use on the AirVANTAGE™ LP. Constructed from premium, industrial-quality materials and featuring a riveted fiberglass and steel hub with molded urethane, their durability and precise construction are the ideal complement to the performance of the AirVANTAGE™ LP. See "Product Configuration/Specifications" Table for the correct replacement pad for a particular model.

Description	Part #
3" low profile (1/4-20), non-vacuum, vinyl face	1232100
3" low profile (1/4-20), non-vacuum, hook face	1232101
3" low profile (1/4-20), non-vacuum, j-hook face	1232102