

**EQUIPMENT SELECTION** ..... Ordering No.

Airsnip	
Model 70	4019009
Air Filter/Regulator/Lubricator	3022003
Balancer	1350084
Power-Pak (250 PSI)	4026016

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**SAFETY MESSAGES TO EMPLOYER AND SAFETY DIRECTOR**  
***AVOID INJURY***

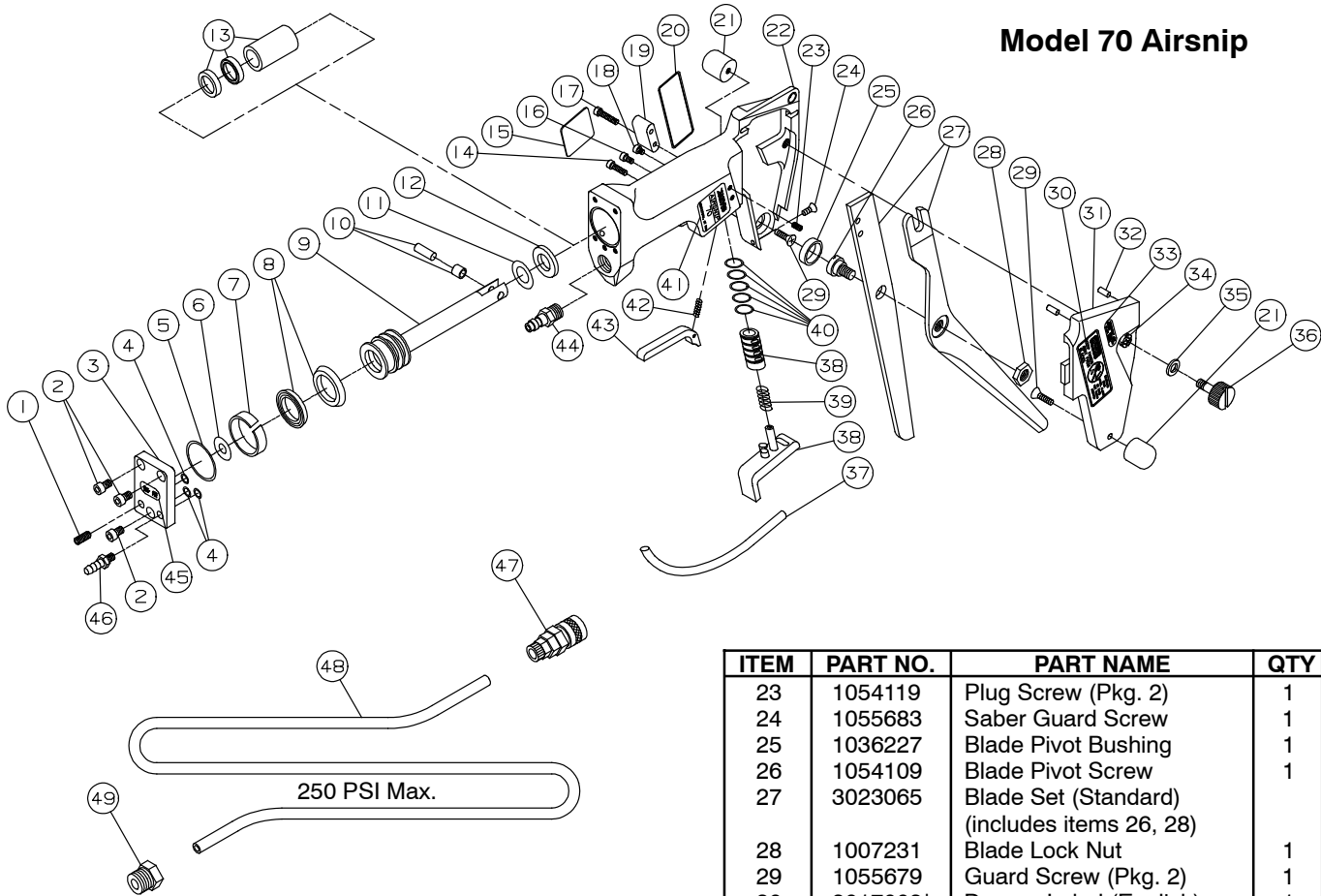
1. **Remove** and **repair** any tool that malfunctions. **All** personnel must be instructed to remove any malfunctioning tool.
2. **Ensure** that all employees who use this tool are trained in the proper use of this tool and are aware of the dangers that may arise if they do not follow the procedures outlined in this brochure.
3. The tool is designed and intended to be powerful. This fact should be obvious to your employees, but you must emphasize it to them.
4. **Ensure** that all employees who use this tool wear a steel mesh glove at all times. **Do not rely** on the steel mesh glove for safety; employees who use this tool must be instructed to keep their free hand(s) away from the cutting edge and the cutting path of the tool.
5. **Enclosed** are four (4) copies of “**SAFETY MESSAGES TO OPERATORS, MAINTENANCE AND CLEANUP PERSONNEL.**” Post one copy on the employees’ bulletin board; give one copy to the operator(s); give one copy to the maintenance foreman; and give one copy to the sub-contract / internal cleanup foreman. *Additional copies will be provided upon request.*
6. **Follow** our installation and maintenance instructions for proper installation and care of the tool.
7. **Ensure** that proper procedures are established in accordance with national and local lockout/tagout procedures to prevent accidental startup or release of stored energy.
8. **Never** make modifications or alterations to the tool. *Replace any missing or illegible labels.*
9. **Avoid** injury. Do not permit the tool to be misused.
10. **If you resell or distribute** a Jarvis product, you must provide the purchaser with the appropriate safety sheets and tool brochure. *Additional copies of safety sheets and tool brochures will be provided upon request.*



**SAFETY MESSAGES TO OPERATORS, MAINTENANCE AND CLEANUP  
PERSONNEL**

***REMOVE ANY MALFUNCTIONING TOOL FROM SERVICE  
REPORT ANY PROBLEMS TO YOUR SUPERVISOR***

1. **Disconnect** the air line in accordance with national and local lockout/tagout procedures before sharpening blades.
2. **Disconnect** the air line in accordance with national and local lockout/tagout procedures before performing any repair or maintenance.
3. **Disconnect** the air line - or have the air line disconnected - in accordance with national and local lockout/tagout procedures before performing any cleanup.
4. **Disconnect** the tool from its air line when it is not in use.
5. **Never** put fingers, hands or other parts of the body on the cutting edge or in the cutting path of the tool.
6. **Always** wear a steel mesh glove on the hand that is not operating the tool. **Do not rely** on the steel mesh glove for safety; employees who use this tool must keep their free hand(s) away from the cutting edge and the cutting path of the tool.
7. **Test** the tool prior to use or daily. **Depress** the top and bottom triggers separately and the blades should not close. **Depress** the bottom (safety) trigger and then the top trigger and the blades should close. **Release** the top trigger and the blades should open. *If the tool malfunctions, remove it from service and report or repair it immediately.*
8. **Never** depress the triggers unless you want to use the tool.
9. **Never** make modifications or alterations to the tool. *Replace any missing or illegible labels.*



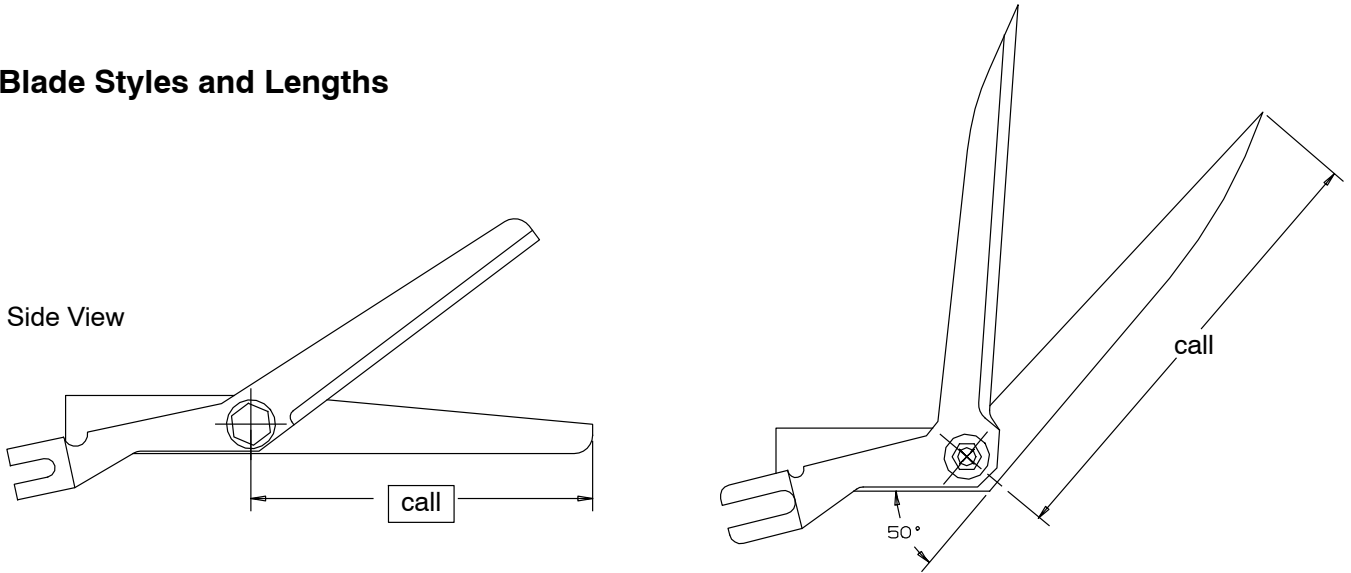
**Model 70 Airsnip**

ITEM	PART NO.	PART NAME	QTY
1	1054111	Speed Adjust Screw	1
2	1055682	Rear Plate Screw (Pkg. 3)	1
3	3032019	Rear Cylinder Plate (includes item 45)	1
4	1035346	O-ring (Pkg. 3)	1
5	1035343	Rear Plate O-ring	1
6	1035349	Rear Bumper O-ring	1
7	1035341	Teflon Wear Ring	1
8	1035339	U-cup Seal (Pkg. 2)	1
9	3065015	Piston Assy with item 10	1
10	1010407	Piston Pin And Sleeve	1
11	1035337	Front Bumper O-ring	1
12	1004205	Piston Bumper Washer	1
13	1036225	Piston Bushing Kit	1
14	1054117	Safety Trigger Screw	1
15	3017003*	Caution Label	1
16	1054124	Trigger Retainer Screw	1
17	1054118	Thumb Rest Screw (Pkg. 2)	1
18	1054113	Valve Body Screw	1
19	1061463	Thumb Rest	1
20	3017003*	Danger Label (Spanish)	1
21	1024115	Finger Guard (Pkg. 2)	1
22	3016204	Main Body (includes items 13, 15, 20, 41)	1

ITEM	PART NO.	PART NAME	QTY
23	1054119	Plug Screw (Pkg. 2)	1
24	1055683	Saber Guard Screw	1
25	1036227	Blade Pivot Bushing	1
26	1054109	Blade Pivot Screw	1
27	3023065	Blade Set (Standard) (includes items 26, 28)	1
28	1007231	Blade Lock Nut	1
29	1055679	Guard Screw (Pkg. 2)	1
30	3017003*	Danger Label (English)	1
31	3002029	Blade Cover (includes items 28, 30, 32-34)	1
32	1010430	Blade Cover Pin	2
33	3017003*	Disconnect Air Label	1
34	1004202	Press Nut	1
35	1004203	Lock Washer	1
36	1054106	Thumb Screw	1
37	1024117	Saber Finger Guard	1
38	3018043	Trigger Valve Assembly	1
39	1014138	Trigger Spring	1
40	1035336	O-ring (Pkg. 5)	1
41	3017003*	Jarvis Label	1
42	1014116	Safety Trigger Spring	1
43	1018117	Safety Trigger	1
44	1051120	Male Coupling	1
45	3017003*	Max. Air Pressure Label	1
46	1051123	Exhaust Hose Fitting	1
47	1051121	Female Coupling	1
48	1059045	Air Line - 250 PSI	1
49	1051122	Air Line Fitting	1
	3059022	Air Line Assy. Complete (includes items 47-49)	
	3061467	Spare Parts Pkg. (includes items 1, 2, 4-8, 11, 12, 14-16, 20, 24, 26, 29, 30, 33, 35, 36, 39-42, 45, 46)	
*	3017003*	Labels Sold As A Set	

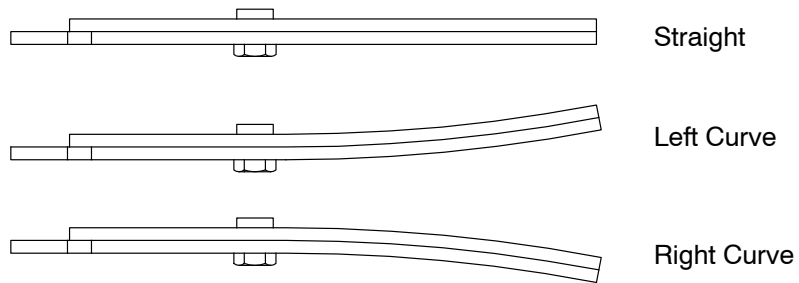
**Many blade set combinations are available: blade styles, blade lengths, blade curves, and blade tips vary depending on your needs. Call Jarvis for more information.**

### Blade Styles and Lengths

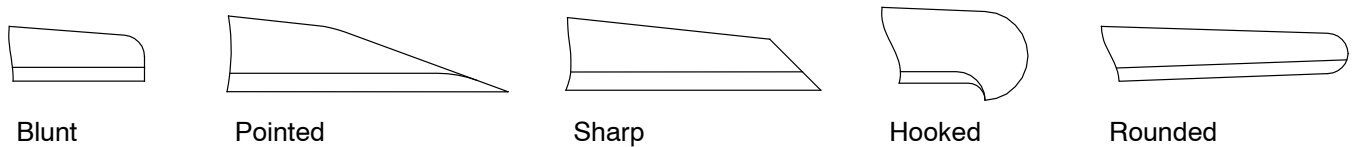


### Blade Curves

Top View - blades fully closed



### Blade Tips



### SPECIFICATIONS

#### Model 70 Airsnip

Driving Force	Pneumatic	
Operating Pressure	60-250 psi	4-17 bar
Air Consumption (per 1000 cuts)	0.07-0.30 ft <sup>3</sup>	2-8 L
Capacity (strokes per second)	1-4	
Cutting Force	70 lb-f	0.31 kN
3.5 in / 90 mm from blade pivot at 100 psi / 6.8 bar.		
Control Handle	Operating Trigger and Safety Trigger	
Blade Opening (at tips)	2.7 in	68 mm
Overall Length	10.5 in	267 mm
Weight	28 oz	0.8 kg

### INSTALLATION INSTRUCTIONS

- 1 Optional: Suspend the Model 70 from a balancer. *Jarvis* part number 1350084 is available.
- 2 Make the necessary air connection:
  - 2.1 The Model 70 air consumption is approximately 0.6 ft<sup>3</sup> / min. with the tool operating at one cut per second at 125 psi.
  - 2.2 An air filter/regulator/lubricator, *Jarvis* part number 3022003, must be installed in the air supply line. *Keep the lubricator filled at all times.*
- 3 Adjust the air pressure:
  - 3.1 Attach female coupling (item 47) on the air line to male coupling (item 44) on the Model 70.
  - 3.2 Make a sample cut.
  - 3.3 Set the air pressure slightly higher than the minimum amount necessary to make the cut. **(Ensure that you have the correct air line to operate at the pressure that you have selected. The supplied air line is rated at 250 psi maximum).**
  - 3.4 If your plant air pressure is not adequate for your cut, *Jarvis* offers a *Power-Pak*, *Jarvis* part number 4026016, that will double air line pressure up to a maximum of 250 psi.
- 4 Adjust the blade speed to match your application (factory preset at maximum speed):

- 4.1 Turn speed adjust screw (item 1) clockwise to decrease the speed of the blades.
- 4.2 Turn speed adjust screw (item 1) counter-clockwise to increase the speed of the blades.
- 5 Notes:
  - 5.1 Parts will be tighter during the break-in period. Expect the Model 70 Airsnip to take approximately 10 hours of operation to achieve full speed.
  - 5.2 A small amount of air leakage from the exhaust hose fitting (item 46) is normal. *If desired, an air line may be attached to the hose fitting to redirect the exhaust.*

### OPERATION INSTRUCTIONS

**DISCONNECT THE AIR LINE IN ACCORDANCE WITH NATIONAL AND LOCAL LOCKOUT/TAGOUT PROCEDURES BEFORE SHARPENING BLADES. DISCONNECT THE AIR LINE IN ACCORDANCE WITH NATIONAL AND LOCAL LOCKOUT/TAGOUT PROCEDURES BEFORE PERFORMING ANY REPAIR OR MAINTENANCE.**



- 1 Attach female coupling (item 47) on the air line to male coupling (item 44) on the Model 70.
- 2 *Each day*, before you begin operation, go through the following checklist:
  - 2.1 Make sure that the compressed air supply is at the proper pressure and that the lubricator is up to the full mark. Use *Jarvis Air Mist Lubricator Oil*; if using a conventional air mist lubricator: set the feed rate at 5 drops per minute; if using a *micro fog* air mist lubricator\*: set the feed rate at 100 drops per minute. *\*Almost all air mist lubricators are micro fog air mist lubricators.*
  - 2.2 Make sure that the Model 70 moves freely on the balancer (if balancer is being used).
  - 2.3 Make sure that you are wearing a steel mesh safety glove on the hand that will *not* be operating the Model 70.
  - 2.4 Loosen speed adjust screw (item 1).

- 2.5 Make sure that the Model 70 is working correctly. **Depress** the top and bottom triggers separately and the blades should not close. **Depress** the bottom (safety) trigger and then the top trigger and the blades should close. **Release** the top trigger and the blades should open. **If for any reason the blades close by depressing only one trigger, or if the blades do not open by releasing the top trigger, remove the malfunctioning tool from service and report the problem to your supervisor immediately.**



3 Making the cut:

- 3.1 Place the Model 70 blades around the object that you would like to cut.
- 3.2 Depress the bottom (safety) trigger and then the top trigger to close the blades.
- 3.3 Release the top trigger to open the blades.

**MAINTENANCE INSTRUCTIONS**

**DISCONNECT THE AIR LINE IN ACCORDANCE WITH NATIONAL AND LOCAL LOCKOUT/TAGOUT PROCEDURES BEFORE SHARPENING BLADES. DISCONNECT THE AIR LINE IN ACCORDANCE WITH NATIONAL AND LOCAL LOCKOUT/TAGOUT PROCEDURES BEFORE PERFORMING ANY REPAIR OR MAINTENANCE.**



1 DAILY:

- 1.1 The Model 70 Airsnip is equipped with a safety trigger. Check for the correct operation of the safety trigger. **Depress** the top and bottom triggers separately and the blades should not close. **Depress** the bottom (safety) trigger and then the top trigger and the blades should close. **Release** the top trigger and the blades should open. **If for any reason the blades close by depressing only one trigger, or if the blades do not open by releasing the top trigger, repair or remove the tool from service immediately.**  
**Note: connect the air line to perform this operation only.**



2 BLADE REMOVAL:



**Wear cut protective gloves when handling blades.**



**Blades must be closed before attempting removal.**

- 2.1 Turn the thumb screw (item 36) counter-clockwise approximately three turns.
- 2.2 Remove blade cover (item 31).
- 2.3 Rotate blade set (items 26-28) out of cavity in main body (item 22).
- 2.4 Remove blade set (items 26-28) from notch in piston assembly (item 9).
- 2.5 Inspect all parts for wear and replace them if necessary.
- 2.6 Inspect blade set (item 27) for wear and sharpen if necessary.

3 BLADE SHARPENING:



**Wear cut protective gloves when handling blades.**

- 3.1 Follow steps and procedures 2.1-2.4.
- 3.2 If necessary, remove blade pivot screw (item 26) and blade lock nut (item 28) from blade set (item 27).
- 3.3 Use a scissor sharpener to sharpen blade set (item 27). Note: blade set may be honed several times to keep the cutting edge sharp before grinding becomes necessary.
- 3.3.1 The blade angle is approximately 48 degrees.
- 3.3.2 Grind blades slowly with a light pressure to avoid overheating. *Blades should be dipped in water for cooling during sharpening.*
- 3.4 Hone or remove burrs on the inside cutting edge of the blades.
- 3.5 Apply a small amount of USDA approved grease or mineral oil on the blade surface at the pivot area.
- 3.6 If removed: install blade pivot screw (item 26) and blade lock nut (item 28) to blade set (item 27). *Tighten blade lock nut until it bottoms on the shoulder of blade pivot screw.*

4 BLADE INSTALLATION:



**Wear cut protective gloves when handling blades.**

- 4.1 Reverse steps and procedures outlined in steps 2.1 - 2.4. See notes below:
- 4.1.1 Be sure that blade pivot screw (item 26) is fully seated in the round pocket in the cavity of the main body (item 22).

4.1.2 Tighten the thumb screw (item 36) securely with a screwdriver. *Do not use pliers.*

## 5 MODEL 70 AIRSNIP DISASSEMBLY:

5.1 Remove blade set and blade cover. Follow steps 2.1 - 2.4.

5.2 Remove rear plate screws (items 2).

5.3 Loosen speed adjust screw (item 1).

5.4 Remove rear cylinder plate (item 3).

5.5 Remove o-rings (items 4 and 5).

5.6 Remove piston assembly (item 9).

5.6.1 Push piston assembly from the blade cavity in main body (item 22) out the bottom of the main body.

5.7 Remove rear bumper o-ring (item 6); remove piston bumper washer (item 12); remove front bumper o-ring (item 11); remove teflon wear ring (item 7); remove u-cup seals (items 8).

5.8 Remove trigger retainer screw (item 16).

5.9 Remove the trigger from the trigger valve assembly (item 38).

5.10 Remove trigger spring (item 39).

5.11 Remove safety trigger screw (item 14).

5.12 Remove safety trigger (item 43).

5.13 Remove safety trigger spring (item 42).

5.14 Remove valve body screw (item 18).

5.15 Remove the valve from the trigger valve assembly (item 38). *Remove valve carefully: do not scratch surfaces.*

5.16 Remove o-rings (items 40).

5.17 Inspect all parts for wear and replace them if necessary.

## 6 MODEL 70 AIRSNIP ASSEMBLY:

6.1 Reverse steps and procedures outlined in steps 5.1-5.16. *See notes below:*

6.1.1 Install o-rings (items 40).

6.1.1.1 Use USDA approved grease to prevent fraying during installation.

6.1.2 Install the valve of the trigger valve assembly (item 38).

6.1.2.1 Align valve so that the small hole in the valve lines up with the screw hole in the main body (item 22). *The holes must line up exactly or the valve will not be flush with the main body.*

6.1.3 Install valve body screw (item 18).

6.1.3.1 The valve body screw is properly installed when it is flush or lower than flush in the main body. *Do not force valve body screw; if it does not screw in easily, realign the valve body.*

6.1.4 Install u-cup seals (items 8) as diagram on page 4 illustrates (closed ends facing each other).

6.1.5 Install piston assembly (item 9) into main body (item 22).

6.1.5.1 Hold onto teflon wear ring (item 7) during installation to prevent fraying.

6.1.6 Install o-rings (items 4 and 5).

6.1.6.1 Use USDA approved grease to hold o-rings in place while installing rear cylinder plate (item 3).

6.1.7 Test Model 70 Airsnip.

6.1.7.1 Refer to operation instructions on page 6.