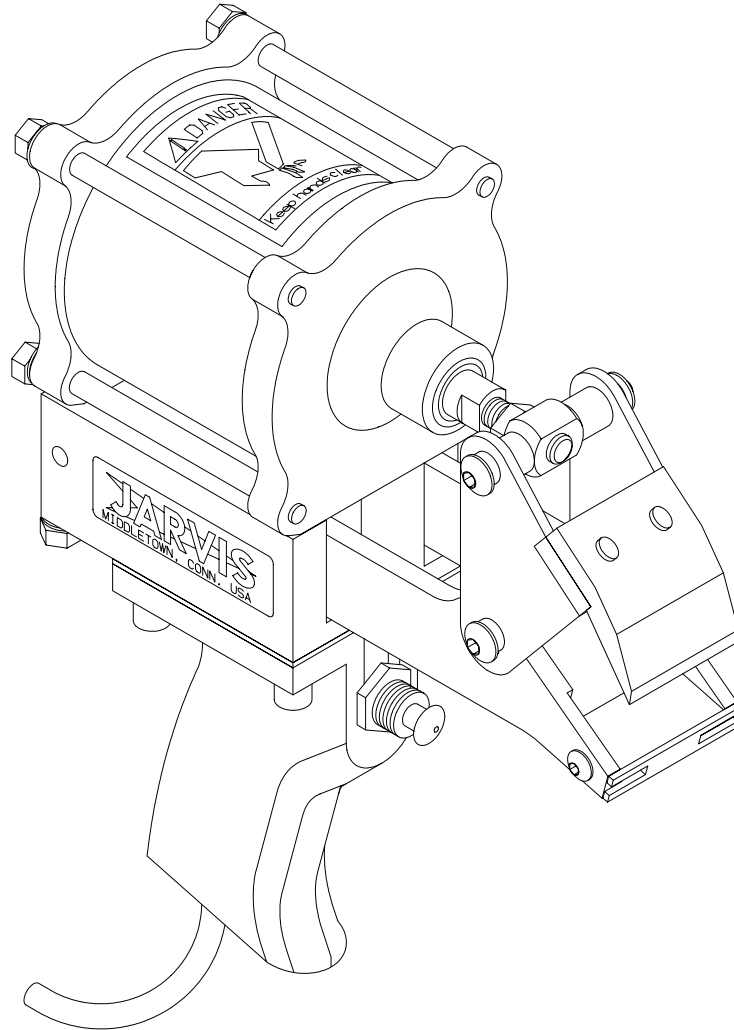




Model PFC-1 Picking Finger Cutter



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JARVIS®

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NOTICE TO EMPLOYER AND SAFETY DIRECTOR

AVOID INJURY

- 1. Remove and repair** any tool that malfunctions. **All** personnel must be instructed to remove any malfunctioning equipment.
- 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. Enclosed** are four (4) copies of “**NOTICE 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.*
- 5. Follow** our installation and maintenance instructions for proper installation and care of the tool.
- 6. Ensure** that proper procedures are established in accordance with OSHA’s lockout/tagout procedures (29 CFR 1910.147) to prevent accidental startup or release of stored energy.
- 7. Never** make modifications or alterations to the tool. *Replace any missing or illegible labels.*
- 8. Avoid** injury. Do not permit the tool to be misused.
- 9. 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.*



NOTICE 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 OSHA's lockout/tagout procedures (29 CFR 1910.147) before sharpening blade.
2. **Disconnect** the air line in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before performing any repair or maintenance.
3. **Disconnect** the air line - or have the air line disconnected - in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) 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. **Test** the tool prior to use or daily. **Depress** the trigger and the blade should close. **Release** the trigger and the blade should open. *If the tool malfunctions, remove it from service and report or repair it immediately.*
7. **Never** depress the trigger unless you want to use or test the tool.
8. **Never** make modifications or alterations to the tool. *Report or replace any missing or illegible labels.*

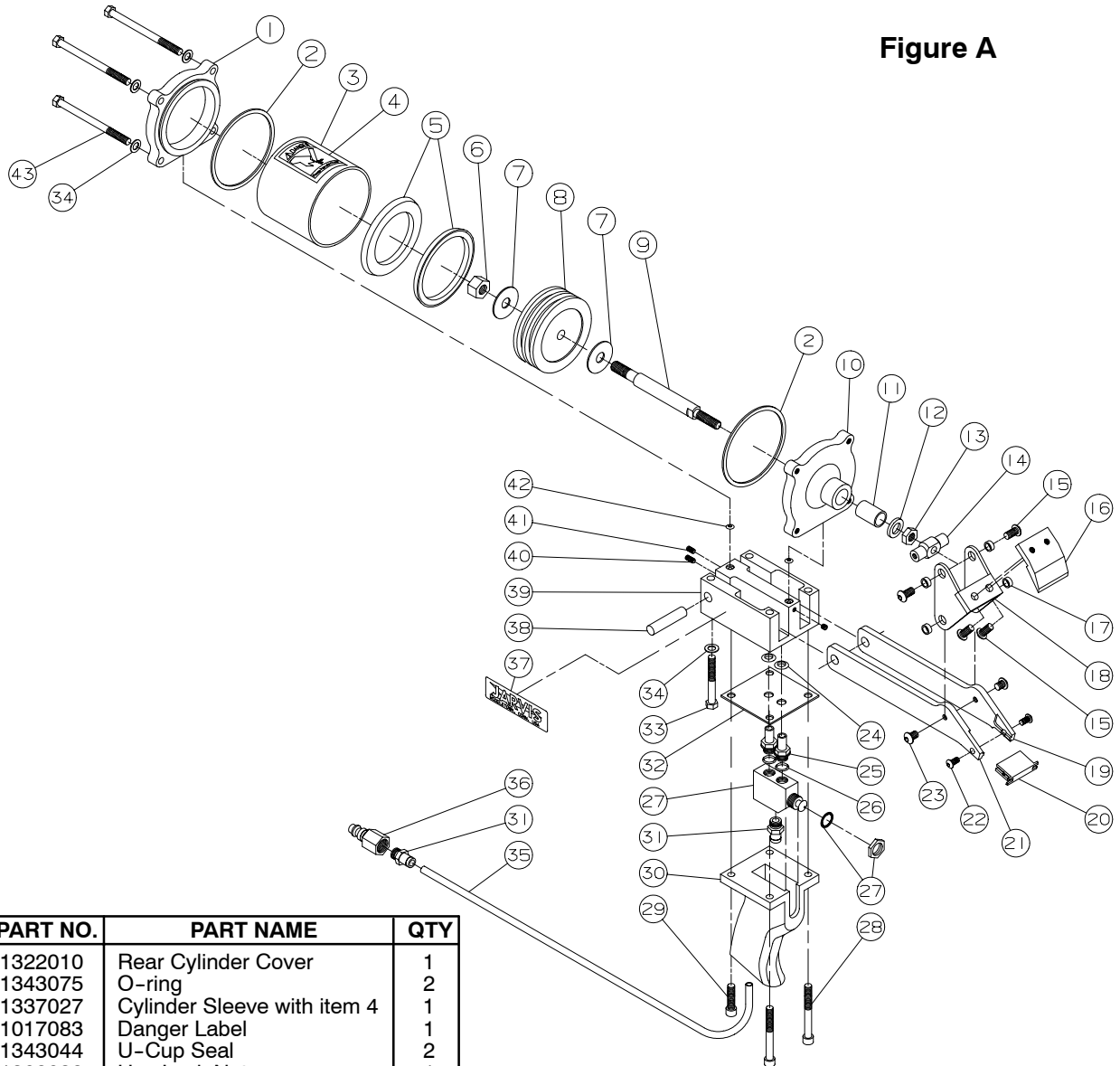


Figure A

ITEM	PART NO.	PART NAME	QTY
1	1322010	Rear Cylinder Cover	1
2	1343075	O-ring	2
3	1337027	Cylinder Sleeve with item 4	1
4	1017083	Danger Label	1
5	1343044	U-Cup Seal	2
6	1302038	Hex Lock Nut	1
7	1303037	Flat Washer	2
8	1305045	Piston	1
9	1312063	Piston Shaft	1
10	1322011	Front Cylinder Cover	1
11	1311037	Cylindrical Bearing	1
12	1343042	U-Cup Seal	1
13	1302037	Hex Jam Nut	1
14	1327144	Pivot Pin	1
15	1301157	Button Head Cap Screw	4
16	1332081	Upper Blade	1
17	1338034	Spacer	4
18	1309049	Cutter Bracket	1
19	1309050	Left Side Support Bracket	1
20	1350183	Anvil	1
21	1309051	Right Side Support Bracket	1
22	1301155	Button Head Cap Screw	2
23	1301156	Button Head Cap Screw	2
24	1343074	O-ring	2
25	1324121	Fitting	2
26	1343073	O-ring	2

ITEM	PART NO.	PART NAME	QTY
27	1346019	4-Way Air Valve (includes nut and spacer)	1
28	1301162	Socket Head Cap Screw	2
29	1301161	Socket Head Cap Screw	2
30	1347023	Handle	1
31	1324120	Fitting	2
32	1304126	Handle Plate	1
33	1301160	Hex Head Screw	2
34	1303038	Flat Washer	8
35	1323042	Tubing	8 ft
36	1324072	Coupler	1
37	1017002	Name Label	2
38	1327145	Pin	1
39	1350182	Manifold with items 40, 41	1
40	1301166	Socket Set Screw, Cup Pt	2
41	1301021	Socket Set Screw, Cup Pt	1
42	1343005	O-ring	2
43	1301159	Hex Head Screw	4

SPECIFICATIONS

Model PFC-1

Drive	Pneumatic	
Operating Pressure (min)	90 psi	6.2 bar
Air Consumption (per cycle)	0.015 ft ³	0.43 L
Control Handle	Single Trigger	
Blade Opening (At Tips)	1.3 in	33 mm
Overall Length	8.0 in	203 mm
Weight	5.5 lb	2.5 kg

INSTALLATION INSTRUCTIONS

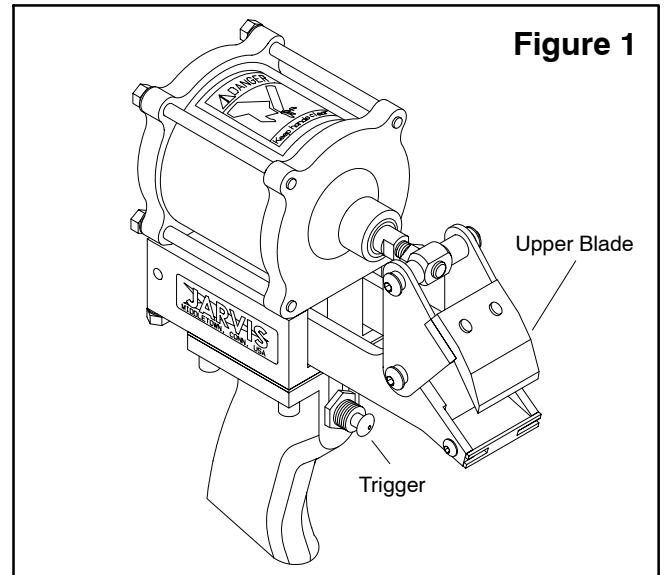
- Optional: suspend the Model PFC-1 from a balancer. **Jarvis** part number 1350147 is available.
- Make the necessary air connection.
 - The Model PFC-1 air consumption is 0.015 ft³ (0.43L) at 90 psi (6.2 bar) minimum.
 - The Model PFC-1 should have sufficient travel to allow the operator to reach the entire work area.
 - An air filter/regulator must be installed in the air supply line. **Jarvis** part number 1346009 is available.
 - Parts will be tight during the break-in period. Expect the cutter to take approximately ten hours to achieve smooth operation.

OPERATION INSTRUCTIONS

IMPORTANT: DISCONNECT THE AIR LINE IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29 CFR 1910.147) BEFORE SHARPENING BLADE. DISCONNECT THE AIR LINE IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29 CFR 1910.147) BEFORE PERFORMING ANY REPAIR OR MAINTENANCE.

Refer to Figure A on page 4 for referenced items.

- Connect air hose.
- Each day, before you begin operation, perform the following:
 - Make sure that the compressed air supply is at the proper pressure.
 - Make sure the Model PFC-1 moves freely on the balancer (if balancer is being used).
 - Make sure the Model PFC-1 is working correctly. **Depress** the trigger and the blade should close. **Release** the trigger and the blade should open. *If the tool malfunctions, remove it from service and report the problem to your supervisor immediately.*
 - Cutting the picking finger.
 - Place tool over rubber finger until upper blade (item 16) presses against the drum or plate, as applicable.
 - Depress trigger to close upper blade (item 16) and cut finger. Refer to Figure 1.



- Release the trigger to open upper blade and remove the Model PFC-1. Cut finger should fall away.
 - Using an appropriate tool, remove the finger base from the drum or plate.

MAINTENANCE INSTRUCTIONS

IMPORTANT: DISCONNECT THE AIR LINE IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29 CFR 1910.147) BEFORE SHARPENING BLADE. DISCONNECT THE AIR LINE IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29 CFR 1910.147) BEFORE PERFORMING ANY REPAIR OR MAINTENANCE.

Refer to Figure A on page 4 for referenced items.

1 DAILY:

- 1.1 Connect the air hose assembly.
- 1.2 Make sure that the cutter is working correctly. **Depress** the trigger and the blade should close. **Release** the trigger and the blade should open. *If the tool malfunctions, repair or remove it from service immediately.*

Disconnect the air hose assembly to perform the following:

- 1.3 Inspect all screws, nuts and fasteners. Tighten or replace as necessary.
- 1.4 Inspect air hose and fittings for leaks. Tighten or replace as necessary.

2 AS NECESSARY:

- 2.1 Disassemble, clean and inspect the Model PFC-1. Refer to sections 3 through 12 as a procedural guide.

3 UPPER BLADE REMOVAL:

Wear protective gloves when handling blade.

- 3.1 Disconnect Model PFC-1 from air supply.
- 3.2 Turn tool upside down and place on a clean, flat surface.
- 3.3 Remove two (2) screws (item 15) securing upper blade (item 16) to cutter bracket (item 18).
- 3.4 Remove upper blade (item 16).
- 3.5 Inspect upper blade for wear. Replace or sharpen if necessary. Refer to section 5.

4 UPPER BLADE INSTALLATION:

- 4.1 Reverse steps and procedures outlined in section 3. See special notes below:

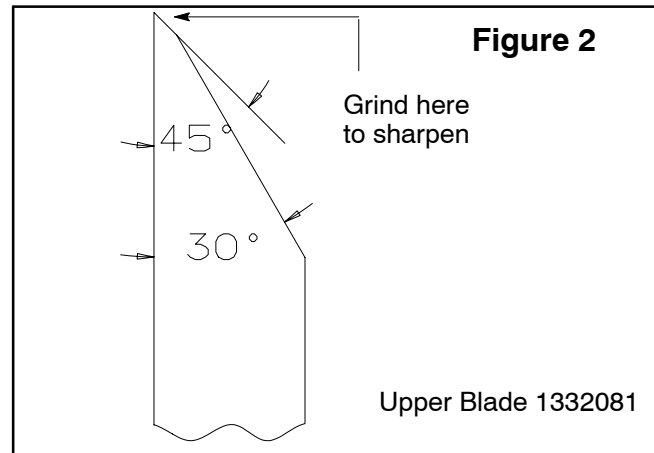
- 4.1.1 Use *Loctite 242* on screws (item 15) when reinstalling upper blade (item 16) to cutter bracket (item 18).

- 4.1.2 Movement of upper blade (item 16) may need adjustment to ensure blade is even with anvil (item 20) when trigger is depressed. Refer to section 10.

5 BLADE SHARPENING:

Wear protective gloves when handling blade.

- 5.1 Sharpen upper blade (item 16) until proper cutting edge is obtained. The blade angle is approximately 45 degrees. See Figure 2 below for proper sharpening angle.



- 5.2 Install upper blade (item 16) onto cutter bracket (item 18). Follow steps and procedures outlined in section 4.

6 ANVIL REMOVAL:

- 6.1 Remove button head screws (item 22) securing anvil (item 20) to right side support bracket (item 21) and left side support bracket (item 19).
- 6.2 Remove anvil (item 20).
- 6.3 Inspect anvil for wear. Replace if necessary.

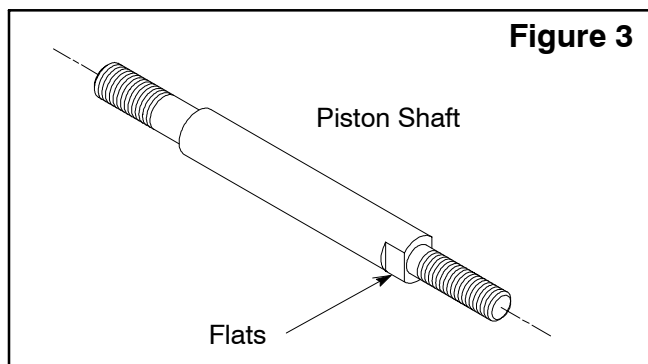
7 ANVIL INSTALLATION:

- 7.1 Reverse steps and procedures outlined in section 6.

8 CYLINDER REMOVAL:

- 8.1 Remove hex head screws (item 43) and flat washers (item 34) from rear cylinder cover (item 1).

- 8.2 Remove hex head screws (item 33) and flat washers (item 34) securing rear cylinder cover (item 1) to manifold (item 39).
- 8.3 Remove rear cylinder cover (item 1).
- 8.4 Remove o-ring (item 2) from rear cylinder cover (item 1).
- 8.5 Remove cylinder sleeve (item 3) from piston and rod assembly.
- 8.6 Place a $\frac{3}{8}$ inch wrench on piston shaft (item 9) flats and remove lock nut (item 6). Refer to Figure 3.
- 8.7 Remove piston (item 8) and flat washers (item 7).
- 8.8 With wrench still in place, loosen hex jam nut (item 13).
- 8.9 Unscrew piston shaft from pivot pin (item 14).
- 8.10 Inspect u-cup seal (item 12) and cylindrical bearing (item 11) for wear and replace if necessary.



- 8.11 Inspect u-cup seals (item 5) and replace if necessary.
- 8.12 Remove o-ring (item 2) from front cylinder cover (item 10).
- 8.13 Inspect all parts for wear and replace if necessary.

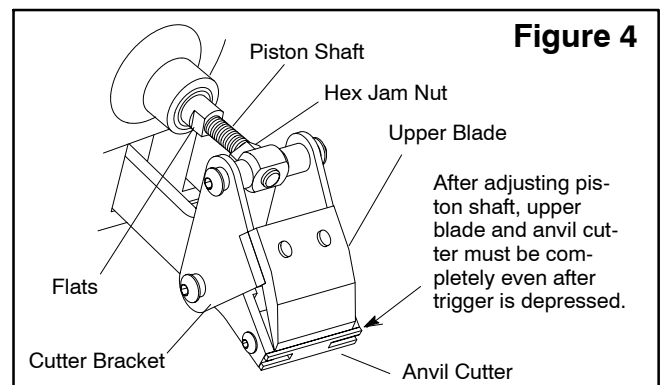
9 CYLINDER ASSEMBLY:

- 9.1 Reverse steps and procedures outlined in section 8. See special notes below:
 - 9.1.1 Use *Loctite 242* when assembling hex lock nut (item 6).

- 9.1.2 Ensure that open end of u-cup seal (item 12) faces rear cylinder cover (item 1).
- 9.1.3 Ensure that u-cup seals (item 5) are placed with open ends toward the outside of piston (item 8).
- 9.1.4 Install piston shaft and piston assembly with flats facing cutter bracket (item 18). Refer to Figure 4.
- 9.1.5 Thread piston shaft (item 9) into pivot pin (item 14), but do not tighten hex jam nut (item 13) until upper blade and anvil adjustment is made.

10 UPPER BLADE AND ANVIL CUTTER ADJUSTMENT:

- 10.1 Reconnect tool to air supply.
- 10.2 Loosen both button head cap screws (item 15) that secure upper blade to cutter bracket (item 18).
- 10.3 Thread piston shaft (item 9) into or out of pivot pin (item 14) until upper blade (item 16) is flush against anvil (item 20) when trigger is depressed. Refer to Figure 4.



- 10.4 Tighten both button head screws (item 15) that secure upper blade (item 16) to cutter bracket (item 18). Use *Loctite 242* to secure these screws.
- 10.5 Use *Loctite 242* to secure hex jam nut (item 13) after making final upper blade to anvil adjustment.

11 4-WAY AIR VALVE REMOVAL:

- 11.1 Remove socket head cap screws (item 28 and 29) that secure handle (item 30) to manifold (item 39).
- 11.2 Loosen 4-way air valve nut (item 27) that secures valve to handle (item 30).
- 11.3 Slide handle (item 30) over tubing (item 35).
- 11.4 Remove fitting (item 31) and tubing (item 35) from underside of 4-way air valve (item 27).
- 11.5 Remove handle plate (item 32), o-rings (item 24), fittings (item 25) and 4-way air valve (item 27) from manifold (item 39).
- 11.6 Remove o-rings (item 24) from fittings (item 25).

- 11.7 Remove handle plate (item 32) from fittings (item 25).
- 11.8 Remove fittings (item 25) and o-rings (item 26) from 4-way air valve (item 27).
- 11.9 Inspect all parts for wear and replace if necessary.

12 4-WAY AIR VALVE INSTALLATION:

- 12.1 Reverse steps and procedures outlined in section 10. See special notes below:
 - 12.1.1 Ensure o-rings (item 26) are installed on fittings (item 25) before placing in 4-way air valve (item 27).
 - 12.1.2 Ensure o-rings (item 24) are installed on fittings (item 25) after installing handle plate (item 32) between handle (item 30) and manifold (item 39).