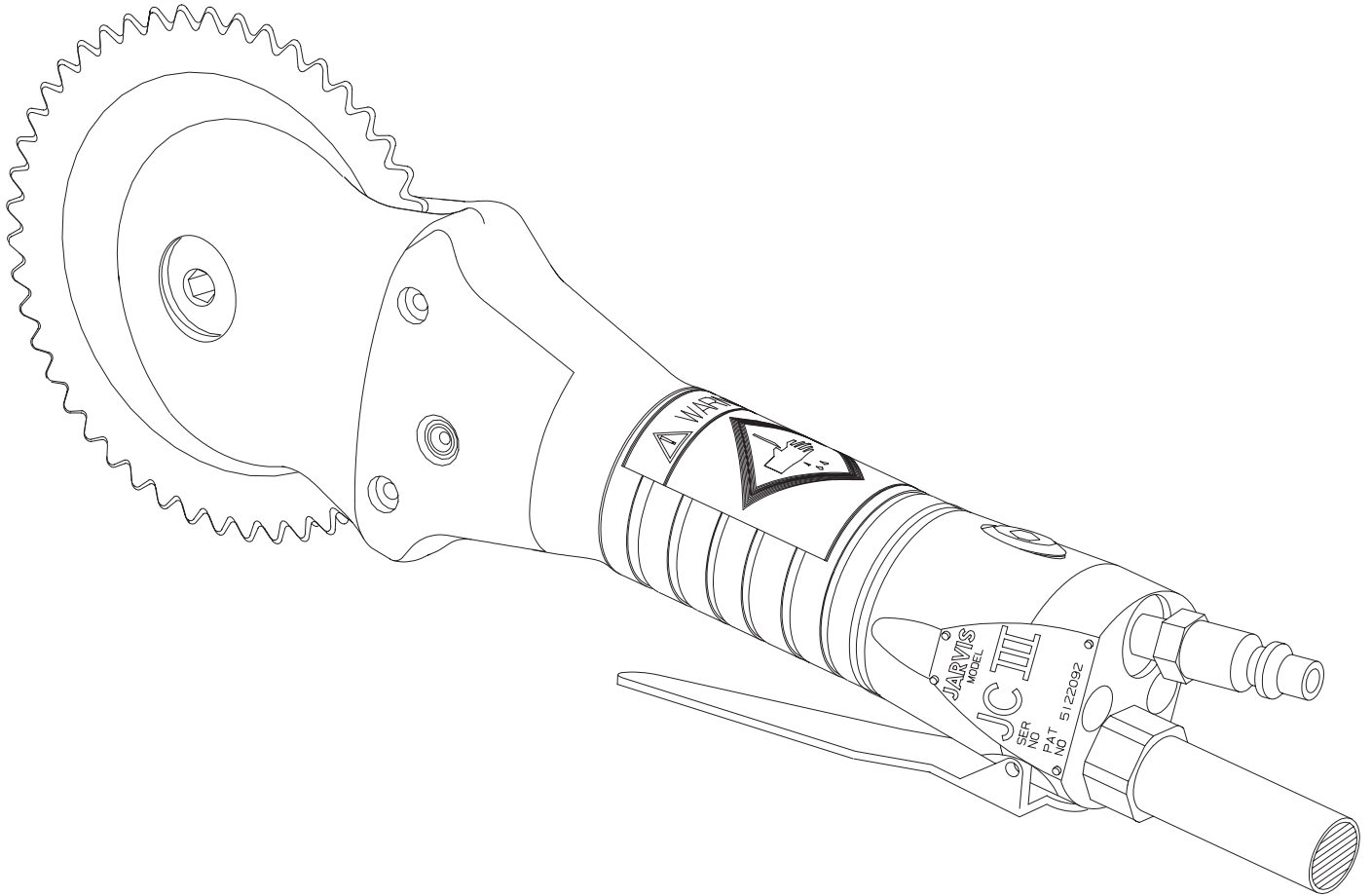




Model JC III Air Powered Dehider



EQUIPMENT SELECTION				TABLE OF CONTENTS Page
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4034019	3023004	100 mm	90 PSI	• Notice to Operators, Maintenance and Cleanup Personnel 3
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Air Hose (with connectors) 1059002				• Operation Instructions 6
Suspension Bracket 1042028				• Maintenance Instructions 7
Air Filter/Lubricator Regulator 3022003				



6234007::

PRODUCTS CORPORATION

33 ANDERSON ROAD, MIDDLETOWN, CONNECTICUT 06457-4926

UNITED STATES OF AMERICA

TEL. 203-347-7271 FAX. 203-347-6978



NOTICE TO EMPLOYER AND SAFETY DIRECTOR
AVOID INJURY

1. **Remove** and **repair** any tool which 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 these procedures.
3. **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 cleanup / internal cleanup foreman. *Additional copies will be provided upon request.*
4. The tool is designed and intended to be powerful. This fact should be obvious to your employees, but you must emphasize it to them.
5. **Never** make modifications or alterations to the tool. *Replace any lost or illegible labels.*
6. **Ensure** that proper procedures are established (in accordance with OSHA’s lockout/tagout procedures 1910.147) to prevent accidental startup.
7. **HAND / WRIST / ARM** injury could result from any repetitive work, motion or exposure to vibration. See OSHA’s ”Ergonomics Program Management Guidelines for Meatpacking Plants.”
8. **Follow** our installation and maintenance instructions for proper installation and care the tool.
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.*



NOTICE TO OPERATORS, MAINTENANCE AND CLEANUP PERSONNEL
REMOVE ANY MALFUNCTIONING TOOL FROM SERVICE
REPORT ANY PROBLEMS TO YOUR SUPERVISOR

1. **Disconnect** the air hose in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before making any blade changes.
2. **Disconnect** the air hose in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before performing any repairs or maintenance.
3. **Disconnect** the air hose - or have the air hose disconnected - in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before performing any cleanup.
4. **Disconnect** the air hose when the tool is not in use.
5. **Never** put fingers, hands or other parts of the body on the cutting edge or within the cutting path of the tool when it is connected to an air supply.
6. **Always** wear a cut-resistant glove on the hand that is not operating the tool.
7. **Test** the tool prior to use daily. **Depress** the trigger switch and the tool should activate. **Release** the trigger switch and the tool should deactivate. If the tool malfunctions, remove it from service and report or repair it immediately.
8. **Never** depress the lever switch unless you want to use or test the tool.
9. **Never** make modifications or alterations to the tool. *Report or replace any lost or illegible labels.*

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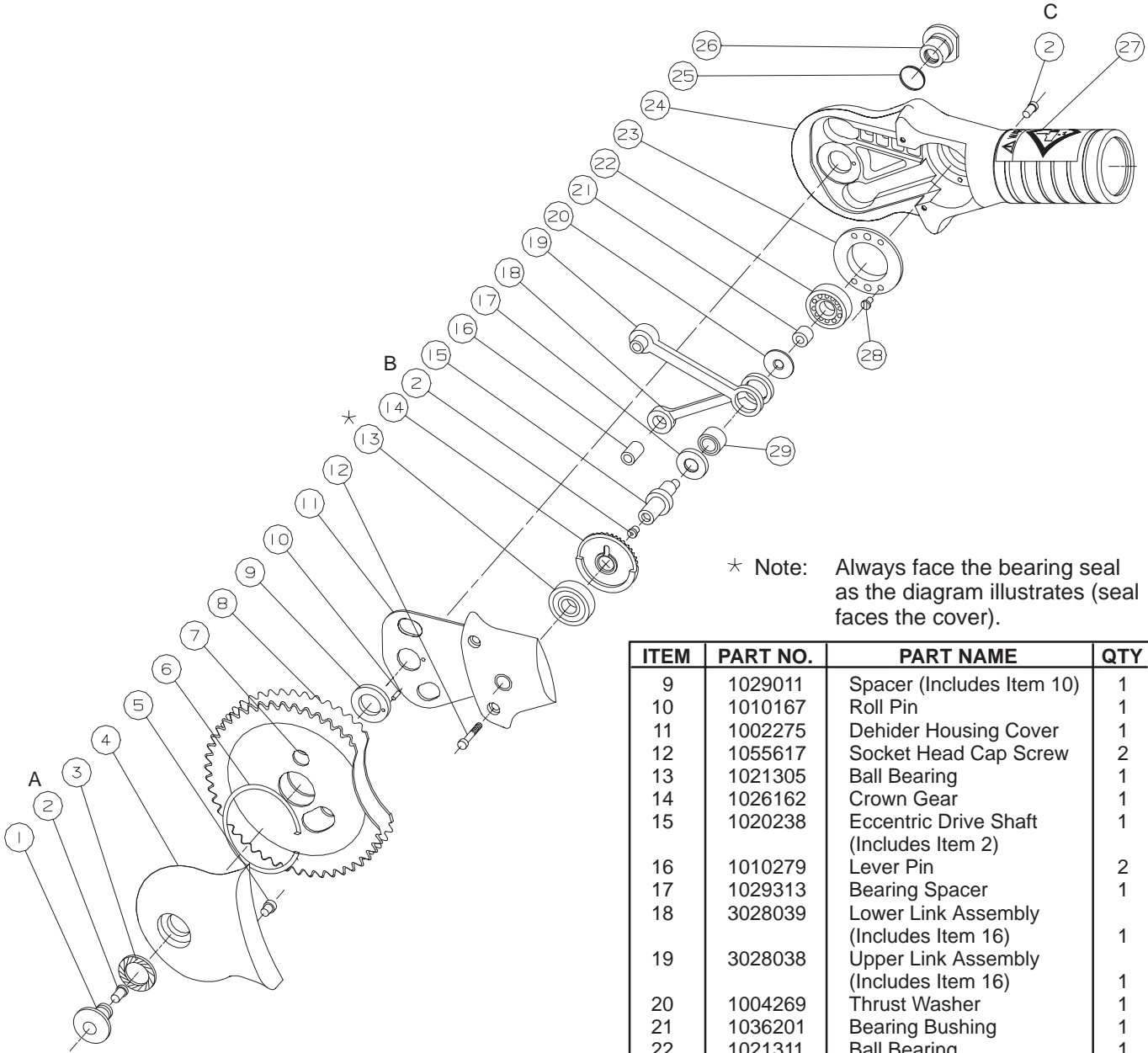
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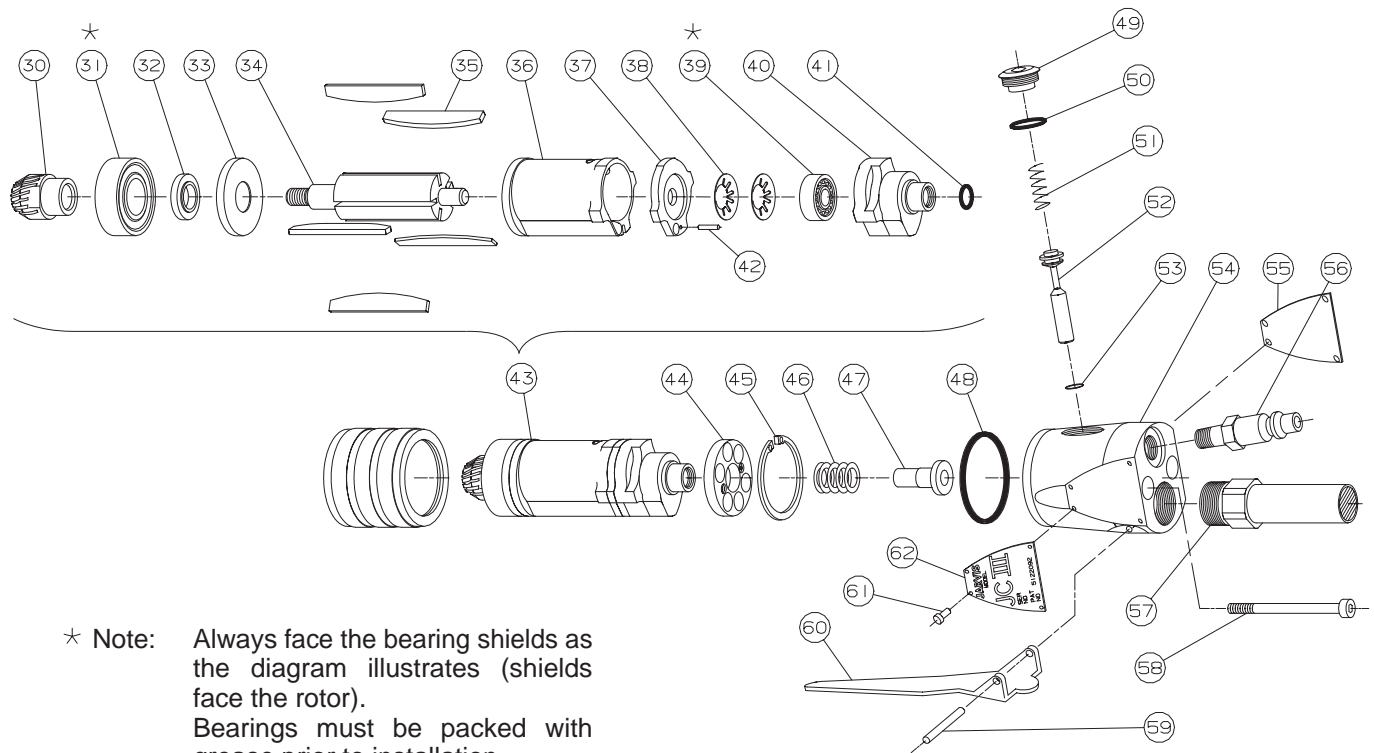
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* Note: Always face the bearing seal as the diagram illustrates (seal faces the cover).

ITEM	PART NO.	PART NAME	QTY
1	1054096	Cover Screw (Includes Item 2)	1
2	1038022	Grease Fitting	3
3	1004011	Spring Lock Washer	1
4	1002274	Blade Cover (Includes Item 5)	1
5	1010283	Rest Pin	1
6	1014105	Wave Spring	1
7	1036006	Blade Bushing	2
8	3023004 3023011	Blade Set (Includes Item 7) 100 mm Diameter 110 mm Diameter	1

ITEM	PART NO.	PART NAME	QTY
9	1029011	Spacer (Includes Item 10)	1
10	1010167	Roll Pin	1
11	1002275	Dehider Housing Cover	1
12	1055617	Socket Head Cap Screw	2
13	1021305	Ball Bearing	1
14	1026162	Crown Gear	1
15	1020238	Eccentric Drive Shaft (Includes Item 2)	1
16	1010279	Lever Pin	2
17	1029313	Bearing Spacer	1
18	3028039	Lower Link Assembly (Includes Item 16)	1
19	3028038	Upper Link Assembly (Includes Item 16)	1
20	1004269	Thrust Washer	1
21	1036201	Bearing Bushing	1
22	1021311	Ball Bearing	1
23	1021304	Bearing Insert	1
24	3016182	Dehider Housing Assy. (Includes Items 2, 23, 27 and 28)	1
25	1035309	O-ring Seal	1
26	1036155	Alignment Bushing (Includes Item 25)	1
27	1017084	Warning Label	1
28	1055616	Cheese Head Screw	4
29	1021354 1017118 3020038	Needle Bearing Max PSI Label (45 PSI tool only, not shown) Drive Assy (includes items 13-15, 17-22, and 29)	1



* Note: Always face the bearing shields as the diagram illustrates (shields face the rotor). Bearings must be packed with grease prior to installation.

ITEM	PART NO.	PART NAME	QTY
30	1026141	Pinion Gear	1
31	1021306	Ball Bearing	1
32	1029267	Rotor Spacer	1
33	1032245	Air Motor Front Plate	1
34	1064025	Air Motor Rotor	1
35	1040011	Air Motor Vane	5
36	1009095	Air Motor Sleeve	1
37	1032246	Air Motor Rear Plate (Includes Item 42)	1
38	1014095	Disk Spring	2
39	1021307	Ball Bearing	1
40	3061124	Manifold Assembly (Includes Item 41)	1
41	1035173	O-ring Seal	1
42	1010111	Roll Pin	1
43	3008124	Air Motor Assembly (Includes Items 30-42)	1
44	1032247	Air Motor Exhaust Plate	1
45	1013122	Internal Retaining Ring	1
46	1014104	Compression Spring	1
47	1011222	Air Gland (For 45 PSI Tool)	1
	1011253	Air Gland (For 90 PSI Tool)	1
48	1035218	O-ring Seal	1

ITEM	PART NO.	PART NAME	QTY
49	1054097	Air Valve Plug (Includes Item 50)	1
50	1035064	O-ring Seal	1
51	1014069	Compression Spring	1
52	1039048	Plunger (Includes Item 53)	1
53	1035012	O-ring Seal	1
54		Valve Sub-assembly (Includes Items 46 and 47)	1
	3022041	For 45 PSI Tool	1
	3022052	For 90 PSI Tool	1
55	1017095	Jarvis Label	1
56	1051013	Quick Connect Plug	1
57	1061404	Muffler	1
58	1055394	Socket Head Cap Screw	2
59	1010286	Dowel Pin	1
60	1018114	Trigger Lever	1
61	1519303	Drive Screw	8
62	1017203	JC III Label	1
		Valve Assembly (Includes Items 49, 51, 52, 54, 59 and 60)	
	3022042	For 45 PSI Tool	1
	3022051	For 90 PSI Tool	1

SPECIFICATIONS

Model JC III

Motor Power	0.55HP ≈ 410W	
Operating Pressure	45 PSI	3.1 bar
	90 PSI	6.2 bar
Air Consumption	12 CFM	0.34 m ³ /min
Blade Speed (in oscillations)	6500–7000/min	
Control Handle	Single Pneumatic Trigger	
Blade Diameters	3.9 in	100 mm
	4.3 in	110 mm
Overall Length	13 in	330 mm
Weight	2.9 lbs	1.3 kg

INSTALLATION INSTRUCTIONS

1 Make the necessary air connection.

1.1 The required compressed air supply is 45-50 PSI, 12-14 CFM (3.1-3.4 bar, .34-.37 m³/min) or 90 PSI, 10 CFM (6.2 bar, 0.37 m³/min). See page 1 for proper operating pressure.

1.2 An air filter/regulator/lubricator (**JARVIS** part number 3022003) must be installed in the air supply line. *Keep the lubricator filled at all times.*

1.2.1 Use **JARVIS** (USDA Approved) Air Mist Lubricator Oil.

1 Pint (0.47 l) 1062010

1 Gallon (3.8 l) 1062011

5 Gallons (18.9 l) 1062012

OPERATION INSTRUCTIONS

IMPORTANT: ALWAYS DISCONNECT THE COMPRESSED AIR SUPPLY IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29 CFR 1910.147) WHEN INSTALLING OR REMOVING THE BLADE.

Refer to the parts diagrams on pages 4-5 for referenced items.

1 *Each day, before you begin operation, perform the following.*

1.1 Make sure that the compressed air supply is at the proper pressure and that the lubricator oil 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.

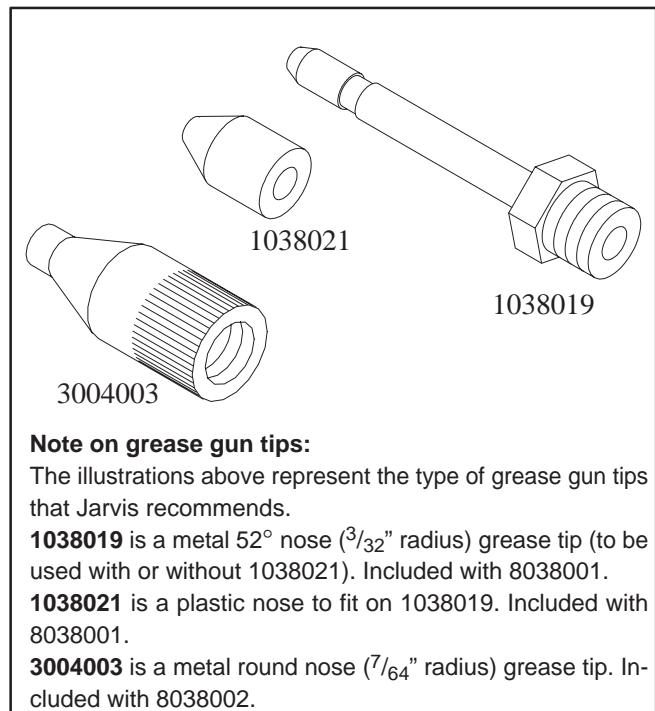
2 *Three times per shift, perform the following.*

2.1 Grease all three grease fittings using Jarvis Grease Gun (part no. 8038001) and Jarvis Grease (part no. 1062003 - Lubriplate FML-2).

2.1.1 Grease fittings (items 2 "A" and 2 "C") with two (2) pumps of grease.

2.1.2 Ensure that grease is getting into the eccentric shaft (item 15), grease fitting (item 2 "B") with four (4) pumps of grease.

2.1.3 Jarvis 14 oz. cartridge-type Grease Gun (part no. 8038002) and Grease Cartridge (part no. 1062031) are also available.



3 *Prior to use or daily*, perform the following test.

3.1 Make sure the control trigger is working correctly. **Depress** the trigger and the tool should activate. **Release** the trigger and the tool should deactivate. *If the tool malfunctions, remove it from service and report the problem to your supervisor immediately.*

4 Making the cut.

- 4.1 Position the dehider in the area where the cutting is to be done.
- 4.2 Squeeze the trigger fully to start the air motor and make the cut.
- 4.3 When desired cut is finished, release the trigger. (This will stop the blades from oscillating.)
- 4.4 Withdraw the JC III from the carcass.

MAINTENANCE INSTRUCTIONS

IMPORTANT: ALWAYS DISCONNECT THE COMPRESSED AIR SUPPLY IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29 CFR 1910.147) WHEN INSTALLING OR REMOVING THE BLADE. ALWAYS DISCONNECT THE COMPRESSED AIR SUPPLY IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29 CFR 1910.147) BEFORE PERFORMING ANY MAINTENANCE OR REPAIRS.

Refer to the parts diagrams on pages 4-5 for referenced items.

Refer to the fixture diagrams above and the assembly/disassembly diagrams within the text for referenced fixture items.

1 **Three times per shift.**

- 1.1 Grease all three grease fittings using Jarvis Grease Gun (part no. 8038001) and Jarvis Grease (part no. 1062003 - Lubriplate FML-2).
 - 1.1.1 Grease fittings (items 2 "A" and 2 "C") with two (2) pumps of grease.
 - 1.1.2 Ensure that grease is getting into the eccentric drive shaft (item 15), grease fitting (item 2 "B") with four (4) pumps of grease.

2 **One time per shift.**

2.1 Flush the air motor by squirting about 10 drops of Jarvis air mist oil directly into the air inlet and running the motor for about five seconds.

3 **One time per day.**

Wear cut protective gloves when handling blades.

- 3.1 Make sure that the compressed air supply is at the proper pressure and that the lubricator oil 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.*
- 3.2 Remove cover screw (item 1).
- 3.3 Remove items (3-8) by pulling up on and turning the blade set (item 8).
- 3.4 Push bushing (item 26) in towards housing (item 24) to remove spacer (item 9).
- 3.5 Remove bushing (item 26).
- 3.6 Clean the dehider housing cover (item 11). *Do not remove the cover, merely clean the accessible part of the cover.*
- 3.7 Clean the blades with soap and water.
- 3.8 Sharpen the blades if necessary.
- 3.9 Spray or dip the dehider blades in USDA approved oil.
- 3.10 Grease the eccentric drive shaft (item 15) through grease fitting (item 2 "B") until grease appears through the dehider housing cover (item 11).
- 3.11 Grease the housing (item 24) through grease fitting (item 2 "C"). Two (2) pumps of grease should be sufficient.
- 3.12 Run the dehider without the blades for approximately one minute.
- 3.13 Insert bushing (item 26) into housing (item 24).
- 3.14 Place spacer (item 9) into dehider housing cover (item 11).

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Hex wrenches 8030001 and 8030006 are provided. The following tools are needed for effective assembly and disassembly of the JC III:

Fixtures 1-8 below
Kit Complete p/n 8039085

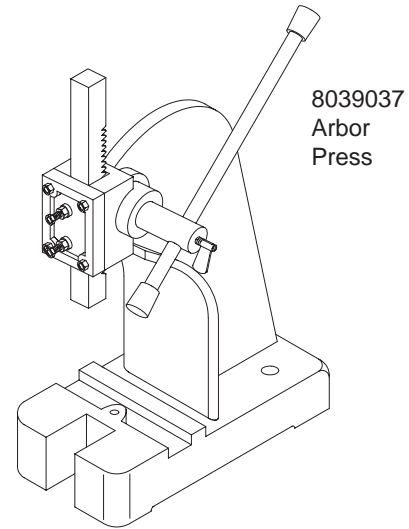
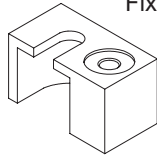
8033007
Drive Pin
Fixture "1"



8033006
Drive Pin
Fixture "2"



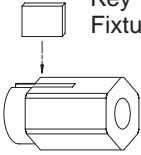
8039084
Assembly Fixture
Fixture "3"



8039041
Locking Collar
Fixture "4"

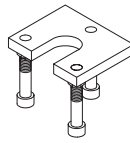


8039042
Key
Fixture "5"

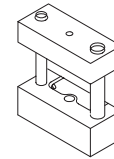


8039040
Locking Sleeve
Fixture "6"

Fixtures 4, 5 and 6 above
assembled complete p/n 8039043



8039055
Rotor Bearing
Assembly Fixture
Fixture "7"



8039087
Eccentric-Gear
Assembly Fixture
Fixture "8"

3.15 Place blade set (item 8) over spacer (item 9).

3.16 Place wave spring (item 6) into blade cover (item 4).

3.17 Place the cover and spring over the bushing.

3.18 Place lock washer (item 3) into blade cover.

3.19 Screw in cover screw (item 1) and tighten.

4 Gear and shaft disassembly.

4.1 Remove cover screw (item 1).

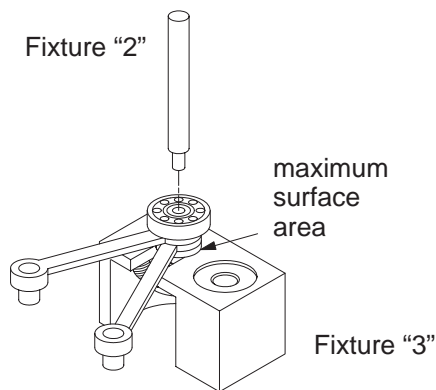
4.2 Remove items 2-8 by pulling up on and turning the blade set (item 8).

4.3 Push bushing (item 26) in towards housing (item 24) to remove spacer (item 9).

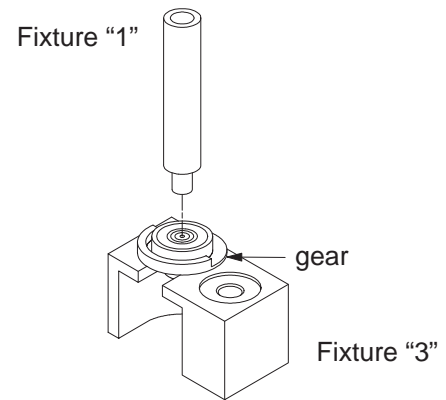
4.4 Remove bushing (item 26).

- 4.5 Remove screws (item 12).
- 4.6 Tap front of housing (item 24) with a rubber mallet to remove dehidier housing cover (item 11).
- 4.7 Remove gear and shaft assembly (items 13-22, 29).
- 4.8 Place fixture "3" on the arbor press.
- 4.9 Slide gear and shaft assembly into cavity in fixture "3".

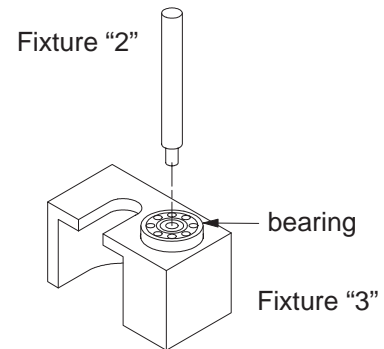
- 4.9.1 The gear (item 14) should be in the cavity.
- 4.9.2 The spacer (item 17) should be resting on the top of fixture "3". *(Turn the gear and shaft assembly until the spacer has as much surface area as possible on the top of fixture "3").*



- 4.10 Position the small diameter end of fixture "2" on the center of eccentric shaft (item 15) and press.
- 4.11 Items 17-22 and 29 should all slide apart now.
- 4.12 Place remaining gear and shaft assembly (items 13-15) into cavity in fixture "3".
 - 4.12.1 The gear (item 14) should be resting on the top of fixture "3".
 - 4.12.2 The eccentric shaft (item 15) should be in the cavity of fixture "3".



- 4.13 Position the small diameter end of fixture "1" on the center of eccentric shaft (item 15) and press.
- 4.14 Items 13-15 should all slide apart now.
- 4.15 Place bearing and bushing (items 21 and 22) in the counter-bore of fixture "3".

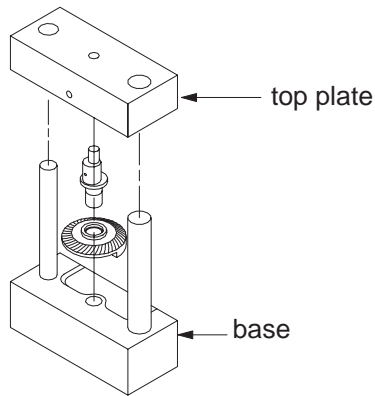


- 4.16 Place the small diameter end of fixture "2" through bushing (item 21) and press.
- 4.17 All of the gear and shaft assembly should be apart now.
- 4.18 Inspect for worn parts and replace if necessary.

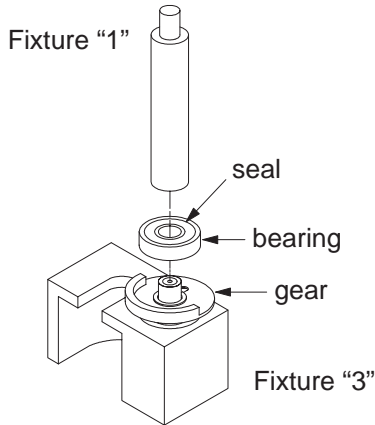
5 Gear and shaft assembly.

- 5.1 Place fixture "8" on the arbor.
- 5.2 Place gear (item 14) onto the base of fixture "8" being careful to nest the wide part of the gear in the cut-out (gear teeth facing up).
- 5.3 Slide the top plate onto the two posts on the fixture base.

Fixture "8"

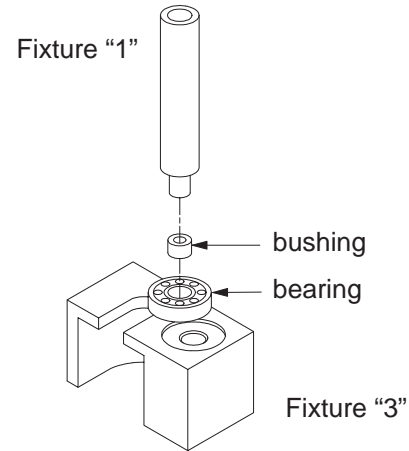


- 5.4 Insert the small end of the eccentric shaft into the bottom side of the top plate.
 - 5.4.1 Rotate the eccentric shaft as you lower the top plate until the upper journal on the eccentric shaft enters the hole on the bottom side of the top plate.
- 5.5 Use the arbor press to push the eccentric journal into the gear.
- 5.6 Place gear (item 14) onto fixture "3" with teeth facing down.
- 5.7 Place bearing (item 13) on the large journal of the eccentric shaft.
 - 5.7.1 The seal on the bearing should face up.

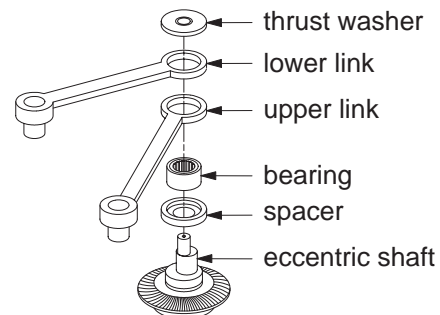


- 5.8 Lightly tap the bearing with the arbor press to orient it correctly.

- 5.9 Position the hollow end of fixture "1" over the small end of the eccentric shaft and press the bearing fully onto the eccentric shaft.
- 5.10 Place bearing (item 22) onto fixture "3".
- 5.11 Slide bushing (item 21) into the center of the bearing and, if necessary, press using fixture "1".

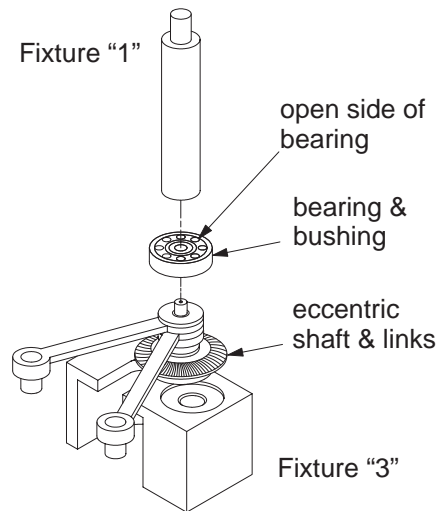


- 5.12 Slide spacer (item 17) over the eccentric shaft.
 - 5.12.1 The bore on the spacer should face up.
- 5.13 Slide bearing (item 29) over the eccentric shaft and into the bore of the spacer.
- 5.14 Slide upper link assembly (item 19) over the bearing.
- 5.15 Slide the lower link assembly (item 18) over the bearing.
 - 5.15.1 The pin on the lower link assembly should face down.



- 5.16 Slide thrust washer (item 20) over the eccentric shaft.

- 5.17 Place the eccentric shaft and link assembly (items 14-20) onto fixture "3".
- 5.18 Place bearing (item 22) over the eccentric shaft.
- 5.19 Lightly tap the bearing with the arbor press to orient it correctly, then press the bearing onto the eccentric shaft as far as possible.
- 5.20 Position the hollow end of fixture "1" over the shaft of the eccentric shaft and press the bearing onto the eccentric shaft fully.
- 5.21 The gear and shaft assembly should be complete now.



6 JC III Assembly.

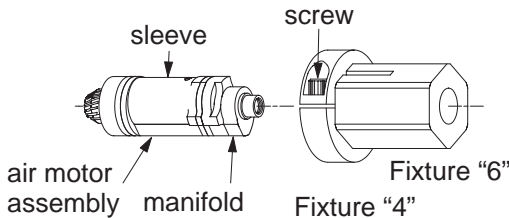
- 6.1 Place the gear and shaft assembly into housing (item 24).
 - 6.1.1 Links (items 18 and 19) should be in their proper slots in housing (item 24).
- 6.2 Place bushing (item 26) through housing (item 24).

- 6.3 Place dehider housing cover (item 11) over bushing (item 26) and into housing (item 24).
- 6.4 Install screws (item 12).
- 6.5 Place spacer (item 9) into dehider housing cover (item 11).
- 6.6 Place blade set (item 8) over spacer (item 9).
- 6.7 Place wave spring (item 6) into blade cover (item 4).
- 6.8 Place the cover and spring over the bushing.
- 6.9 Place lock washer (item 3) into blade cover.
- 6.10 Screw in cover screw (item 1) and tighten.

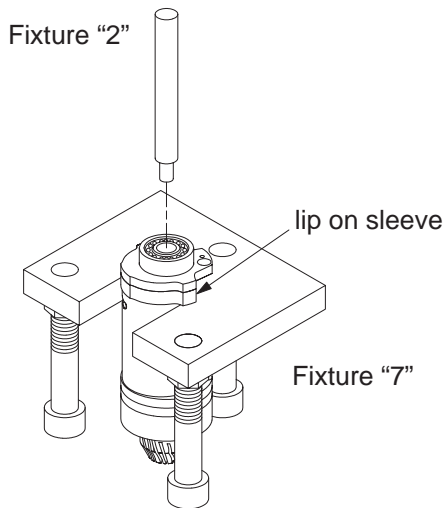
7 Air motor disassembly.

- 7.1 Remove two screws (item 58).
- 7.2 Pull apart valve sub-assembly (item 54) from housing assembly (item 24).
 - 7.2.1 Items 46-48 should come off along with the valve sub-assembly.
- 7.3 Remove retaining ring (item 45) from housing assembly (item 24).
- 7.4 Remove exhaust plate (item 44).
- 7.5 Tap on the end of the housing assembly (item 24) with a rubber mallet to dislodge the air motor (item 43).
- 7.6 Remove the air motor.
- 7.7 Place fixture "6" into vise. *Do not over tighten.*
- 7.8 Place fixture "4" onto fixture "6".
- 7.9 Slide air motor assembly (item 43) into fixture "6", *manifold end down.*

- 7.10 Tighten the screw located in fixture "4" so as to lock the manifold (item 40) in place.
- 7.11 Pull on sleeve (item 36) section of air motor assembly (item 43) to remove manifold (item 40). *Do not score the air motor assembly.*

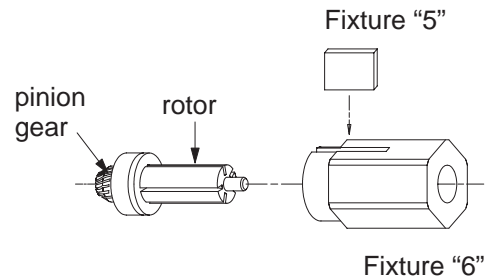


- 7.12 Place fixture "7" on the arbor press.
- 7.13 Place air motor assembly (item 43) - less the manifold - onto fixture "7".
 - 7.13.1 The lip on the sleeve (item 36) should hold the assembly in the fixture.



- 7.14 Position the small diameter end of fixture "2" on the center of rotor shaft (item 34) and press.
- 7.15 Ball bearing (item 39) should now be separated from rotor (item 34).
- 7.16 Remove disk springs (item 38).
- 7.17 Remove rear plate (item 37).

- 7.18 Remove sleeve (item 36).
- 7.19 Remove vanes (item 35).
- 7.20 Place fixture "6" into vise. *Do not over tighten.*



- 7.20.1 Place rotor (item 34) and pinion assembly (item 30) into fixture "6," rotor end down.
- 7.20.2 Slip fixture "5" into the vane slot in rotor (item 34).
- 7.20.3 Place wrench on pinion gear (item 30) and unscrew it from rotor (item 34).
- 7.21 Remove spacer (item 32)
- 7.22 Remove front plate (item 33).
- 7.23 Remove ball bearing (item 31) from the pinion gear.
- 7.24 Check for worn parts and replace if necessary.

8 Air motor assembly.

- 8.1 Reverse procedures and steps outlined in steps 4.1-4.23. See notes below.
 - 8.1.1 Pack bearings (item 31 and 39) with Jarvis Grease (part no. 1062003 - Lubriplate FML-2) prior to installation.
 - 8.1.2 Be sure to install bearings (items 31 and 39) correctly: the seals must face the rotor (item 34).
 - 8.1.3 With pinion gear (item 30) facing down, press bearing (item 39) onto rotor shaft (item 34) until it is flush with the end of the shaft.