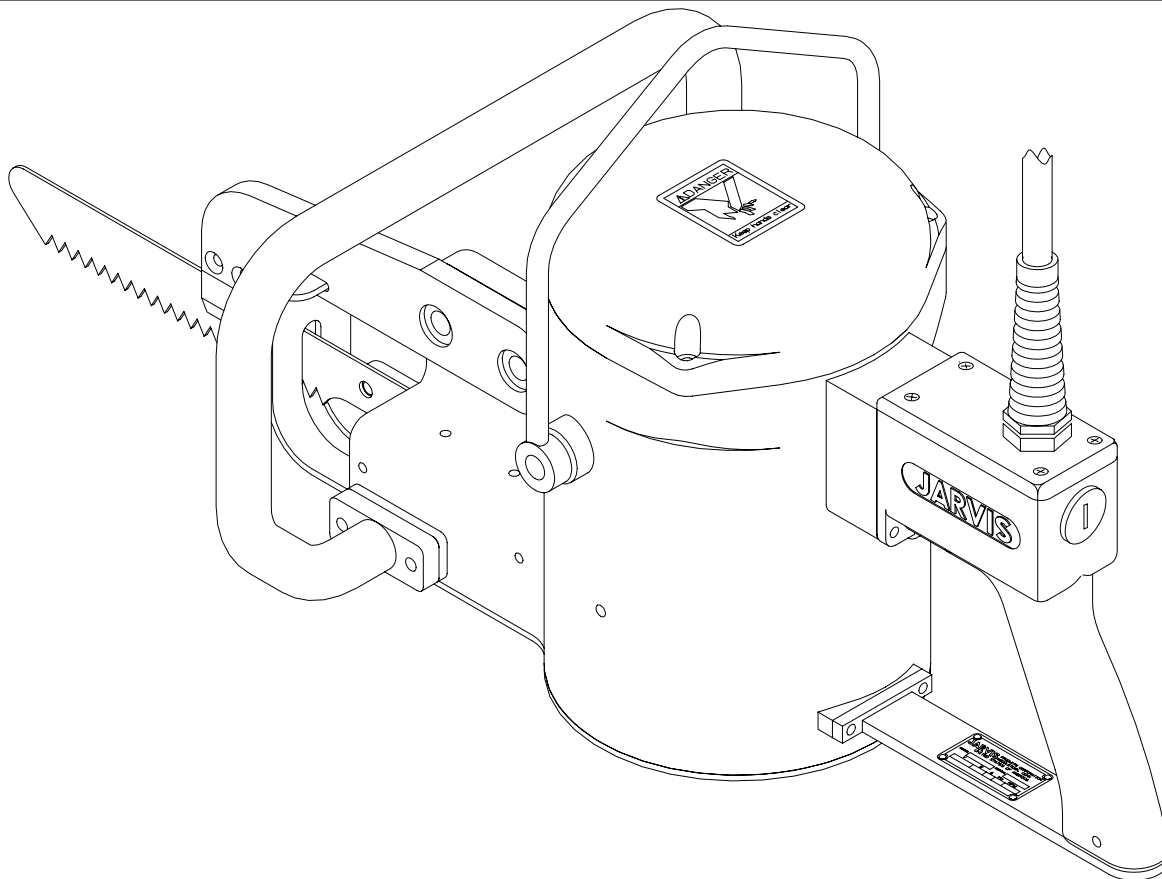




Model EBS-1, -H and -HS Electric Beef Brisket, Horn and Hog Splitting Saws



EQUIPMENT SELECTION .. Ordering No.

Models EBS-1	
42 V, 3 phase 50 Hz	4005094
115 V, 3 phase, 50 Hz	4005095
380/220 V, 3 phase 60 Hz	4005096
400/230 V, 3 phase 50 Hz	4005097
415 V, 3 phase 50 Hz	4005098
460/230 V, 3 phase, 60 Hz	4005099
575 V, 3 phase, 60 Hz	4005123
Models EBS-1-H (Horns)	
380/220 V, 3 phase 60 Hz	4005101
400/230 V, 3 phase 50 Hz	4005117
480/240 V, 3 phase 60 Hz	4005111
575 V, 3 phase 60 Hz	4005138
Model EBS-1-HS (Hog Splitter)	
42 V, 3 phase 50 Hz	4005113
400/230 V, 3 phase 50 Hz	4005120
Blades	
9.5 inch	1023083
10.5 inch	1023084
11.5 inch	1023215
13 inch	1023230
Balancer (for all Models)	4042034

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PRODUCTS CORPORATION

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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 procedures outlined in this brochure.
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 missing or illegible labels.*
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. **Ensure** that employees wear eye protection in accordance with OSHA’s eye and face protection requirements (29 CFR 1910.133) when using the tool.
8. **Hand/Wrist/Arm** injury and other Cumulative Trauma Disorders may result from repetitive work, motion or vibration. You must make your employee’s aware of hazards, symptoms of injury and appropriate prevention. See OSHA’s “Ergonomic Program Management Guidelines for Meatpacking Plants.”
9. **Follow** our installation and maintenance instructions for proper installation and care of the tool.
10. **Avoid** injury. Do not permit the tool to be misused.
11. **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.*

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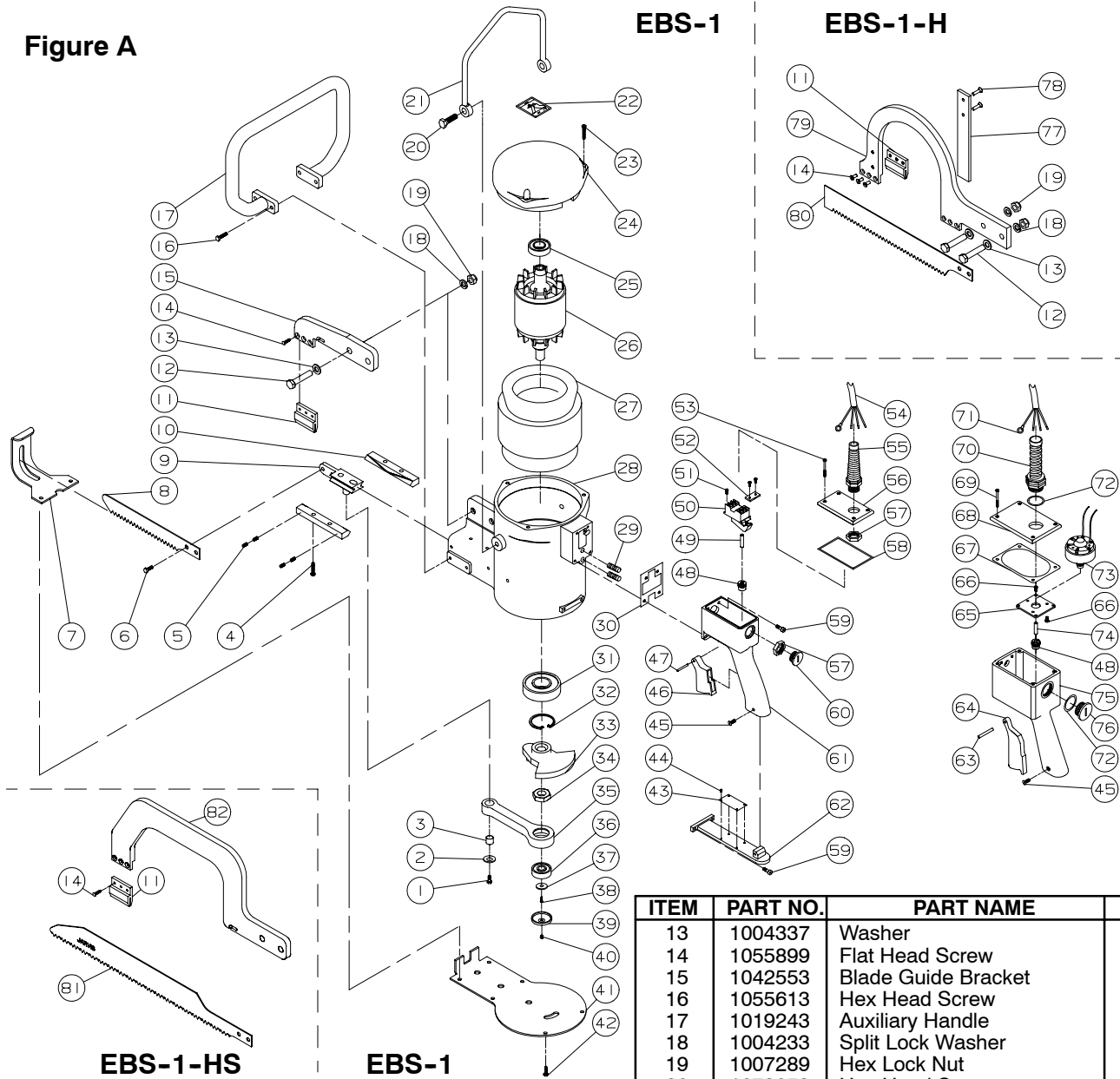
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NOTICE TO OPERATORS, MAINTENANCE AND CLEANUP PERSONNEL
REMOVE ANY MALFUNCTIONING TOOL FROM SERVICE
REPORT ANY PROBLEMS TO YOUR SUPERVISOR

1. **Disconnect** the power supply in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before making any blade changes.
2. **Disconnect** the power supply in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before performing any repair or maintenance.
3. **Disconnect** the power supply - or have the power shut off - in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before performing any cleanup.
4. **Disconnect** the power off when the tool is not being used.
5. **Never** put fingers, hands or other parts of the body on the blade or within the cutting path of the tool when it is connected to the power supply.
6. **Always** wear eye protection in accordance with OSHA's eye and face protection requirements (29 CFR 1910.133) when operating the tool.
7. **Always** wear cut protective gloves when handling the blade.
8. **Test** the tool prior to use or daily. **Depress** the trigger and the tool should start. **Release** the trigger and the tool should stop. *If the tool malfunctions, remove it from service and report or repair it immediately.*
9. **Never** depress the trigger unless you want to use or test the tool.
10. **Never** make modifications or alterations to the tool. *Replace any missing or illegible labels.*
11. **Always** use both hands when starting and operating the tool to avoid the risk of possible "kick back" or "recoil". **Continue** holding the tool with both hands until the saw blade comes to a complete stop.

Figure A



ITEM	PART NO.	PART NAME	QTY
1	1038011	Grease Fitting	1
2	1004419	Washer	1
3	1036322	Bushing	1
4	1055776	Socket Head Cap Screw	4
5	1055938	Socket Set Screw, Cup Pt.	8
6	1073050	Hex Head Screw	2
7	1024277	Saw Blade Guard	1
8	1023083	Saw Blade, 9 1/2 inch	1
	1023084	Saw Blade, 10 1/2 inch	
	1023215	Saw Blade, 11 1/2 inch	
	1023230	Saw Blade, 13 inch	
9	1065078	Blade Drive Piston	1
10	1058187	Blade Side Guide	2
11	1058188	Blade Top Guide	1
12	1055132	Hex Head Screw	2

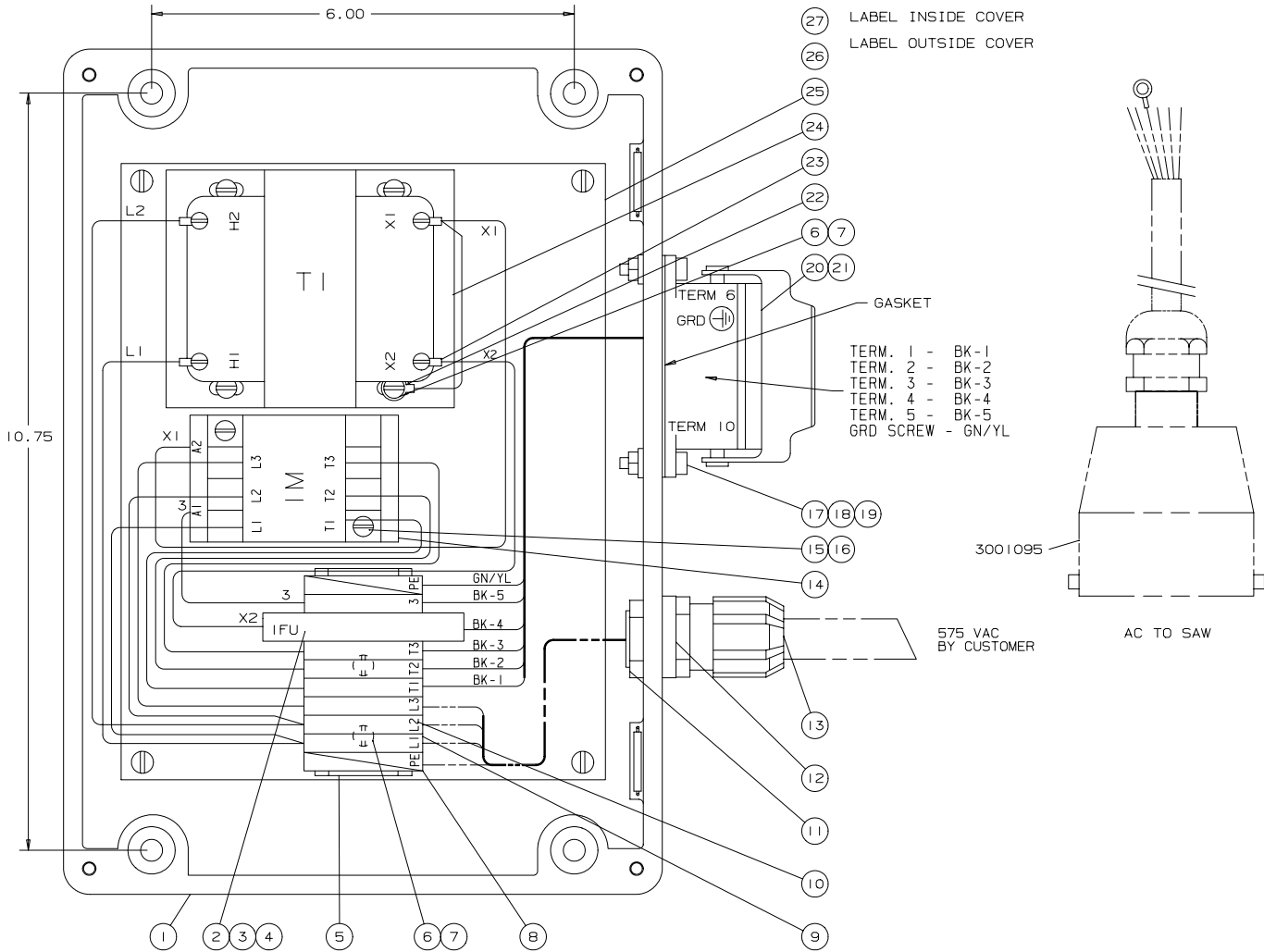
ITEM	PART NO.	PART NAME	QTY
13	1004337	Washer	2
14	1055899	Flat Head Screw	3
15	1042553	Blade Guide Bracket	1
16	1055613	Hex Head Screw	4
17	1019243	Auxiliary Handle	1
18	1004233	Split Lock Washer	2
19	1007289	Hex Lock Nut	2
20	1073053	Hex Head Screw	2
21	1042554	Hanger	1
22	1017083	Danger Label	1
23	1055905	Cheese Head Screw	3
24	1002515	Motor Cover	1
25	1021464	Bearing	1
26	1064053	Rotor	1
27	1063995	Stator, 42 V, 50 Hz	1
	1063996	Stator, 115 V, 50 Hz	
	1063997	Stator, 380/220 V, 60 Hz	
	1063998	Stator, 400/230 V, 50 Hz	
	1063999	Stator, 415 V, 50 Hz	
	1072001	Stator, 460/230 V, 60 Hz	
	1072308	Stator, 575 V, 60 Hz	
28	1016658	Main Housing	1
29	1073052	Socket Set Screw	2
30	1035396	Gasket	1
31	1021466	Bearing	1

ITEM	PART NO.	PART NAME	QTY
32	1013279	Beveled Retaining Ring	1
33	1020374	Crank	1
34	1007383	Hex Jam Nut	1
35	1028136	Connecting Link	1
36	1021467	Bearing	1
37	1004420	Washer	1
38	1055359	Hex Head Screw	1
39	1002516	Bearing Cover	1
40	1038022	Grease Fitting	1
41	1002517	Bottom Cover	1
42	1055945	Hex Head Screw	6
43	1017158	Name Plate Label	1
44	1055039	Drive Screw	4
45	1055781	Oval Head Screw	2
46	1018118	Trigger Lever	1
47	1010343	Dowel Pin	1
48	1036184	Trigger Bushing	1
49	1039055	Plunger	1
50	1005098	Switch, 115-575 V	1
51	1055779	Cheese Head Screw	3
52	1012072	Switch Holding Clamp	1
53	1055778	Pan Head Screw	4
54	1001196	Elec. Cord, 115-575 V 15 ft	1
	1001104*	Spiral Cord, 115-575 V 15 ft	1
	3001095	Cord with Conn., 575V 15 ft	1
55	1011260	Cord Connector, 115-575 V	1
56	1002311	Cover, 115-575 V	1

* Optional

ITEM	PART NO.	PART NAME	QTY
57	1007262	Locking Nut, 115-575 V	2
58	1035361	Electrical Box Gasket	1
59	1055758	Cheese Head Screw	7
60	1061530	Hole Plug, 115-575 V	1
61	1019136	Rear Handle, 115-575 V	1
62	1042555	Rear Handle Bracket	1
63	1010456	Dowel Pin	1
64	1018153	Trigger Lever, 42 V	1
65	1032529	Switch Mounting Plate	1
66	1055915	Cheese Head Screw	7
67	1035614	Gasket, 42 V	1
68	1002465	Cover, 42 V	1
69	1055108	Cheese Head Screw	4
70	1011328	Cord Connector, 42 V	1
71	1001157	Electric Cord, 42 V, 15 ft	1
72	1004394	Sealing Washer, 42 V	2
73	1005143	Switch, 42 V	1
74	1010457	Plunger, 42 V	1
75	1019220	Rear Handle, 42 V	1
76	1061954	Hole Plug, 42 V	1
77	1042585	Guide Bracket	1
78	1073044	Flat Head Screw	2
79	1042584	Blade Guide Bracket	1
80	1023602	Blade, Horn Cutting	1
81	1023090	Blade, Hog Splitting	1
82	1042610	Blade Guide Bracket	1

Figure B
575V Control Box



ITEM	PART NO.	PART NAME	QTY
1	1016445	Electrical Enclosure	1
2	1063455	Fuse Terminal Block	1
3	1063456	Terminal Marker	1
4	1063473	Fuse	1
5	1063393	Terminal Rail	1
6	1055010	Pan Head Screw	6
7	1004022	Internal Lock Washer	6
8	1063496	Yellow/Green Terminal Block	2
9	1063494	Grey Terminal Block	7
10	1063363	Terminal Marker	9
11	1007278	Locking Nut	1
12	1004211	Sealing Washer	1
13	1011268	Cord Connector	1
14	1063552	Contactors	1

ITEM	PART NO.	PART NAME	QTY
15	1055499	Pan Head Screw	2
16	1004199	Lock Washer	2
17	1055484	Pan Head Screw	4
18	1004006	Internal Lock Washer	4
19	1007192	Hex Nut	4
20	1063908	Connector Housing	1
21	1063905	Connector Female Insert	1
22	1063079	Wire Terminal Ring	1
23	1063089	Wire Terminal Ring	5
24	1063500	Transformer	1
25	1032320	Mounting Plate	1
26	1017085	Danger Label	1
27	1017231	Wiring Diagram Label	1
	3063108	Complete Control Box	

SPECIFICATIONS

Models EBS-1

Motor Power	1.9 hp	1400 W
Operating Voltages	42, 115, 230, 400, 415 V, 3 phase, 50 Hz 220, 240, 380, 480 575 V, 3 phase, 60 Hz	
Blade Lengths EBS-1	9.5 in	241 mm
	10.5 in	267 mm
	11.5 in	292 mm
	13.0 in	330 mm
Blade Lengths EBS-1-H	15.8 in	400 mm
Blade Lengths EBS-1-HS	21.9 in	556 mm
Control Handle	Single / Electric	
Cut Speed	at 60 Hz	750 ft/min 229 m/min
	at 50 Hz	625 ft/min 191 m/min
Cutting Cycle Time	4 sec	
Overall Length (w/o blade)	24 in	610 mm
Overall Length (9.5 in blade)	28 in	711 mm
Weight	53 lbs	24 kg

INSTALLATION INSTRUCTIONS

Refer to Figure A on page 4 for referenced items.

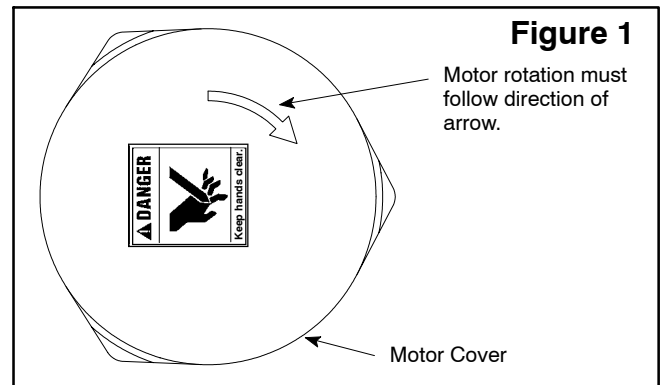
IMPORTANT: ALWAYS DISCONNECT THE ELECTRIC POWER SUPPLY IN ACCORDANCE WITH OSHA'S LOCKOUT/TAGOUT PROCEDURES (29CFR 1910.147) BEFORE PERFORMING ANY MAINTENANCE OR REPAIRS.

ALL WIRING MUST BE DONE IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL ELECTRICAL CODES.

- 1 Install the Model EBS-1 saw above the work station from a balancer. **Jarvis** part number 4042034 is available.
 - 1.1 The saw should have sufficient travel to allow the operator to reach the entire work area.
- 2 Position power cord for either top exit or rear exit as desired.
 - 2.1 Unplug the tool.
 - 2.2 Remove four (4) screws (items 53 or 69), electrical box cover (item 56 or 68) and gasket (item 58 or 67).

- 2.3 Disconnect power cord (item 54 or 71) from switch (item 50 or 73).
- 2.4 Remove two (2) locking nuts (item 57), cord connector (item 55 or 70) and plug (item 60 or 76).
- 2.5 Swap positions of cord connector and plug. Retighten nuts.
- 2.6 Reconnect power cord (item 54 or 71) to switch.
- 2.7 Check motor rotation. Motor rotation must follow direction of arrow shown in *Figure 1*.

Crank (item 33) will unscrew if motor direction is wrong.



- 2.8 Reinstall gasket (item 58 or 67), cover (item 56 or 68) and four (4) screws (items 53 or 69).
- 3 Connect the tool to the appropriately fused electric outlet.

OPERATION INSTRUCTIONS

- 1 Prior to use or daily perform the following tests:
 - 1.1 Make sure that the saw moves freely on the balancer.
 - 1.2 Make sure the control trigger is working correctly. **Depress** the trigger and the tool **should** start. **Release** the trigger and the tool **should** stop. **If the tool malfunctions, remove it from service and report the problem to your supervisor immediately.**
Always use two hands when starting and stopping the tool.
- 2 Make the cut:
 - 2.1 Insert the saw blade into the cut made in a previous operation.
 - 2.1.1 The front end of the saw should be tipped up at approximately a 30 degree angle.

- 2.2 Depress the trigger to start the saw.
Always use two hands when starting the tool and making the cut.
- 2.3 Guide the saw down through the brisket applying a steady, even pressure to both handles.
 - 2.3.1 The blade end of the saw should be pointing upwards during the first part of the cut.
 - 2.3.2 As the brisket starts to open, rotate the saw to a horizontal position to finish the cut.
- 2.4 Release the trigger to stop the saw.
Continue holding the tool with two hands until the saw blade comes to a complete stop.
- 2.5 Remove the saw from the carcass.
- 2.6 Sanitize the saw blade.

MAINTENANCE INSTRUCTIONS

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

Refer to Figure A on page 4 for referenced items

1 PRIOR TO USE OR DAILY:

- 1.1 Make sure the control trigger is working correctly. **Depress** the trigger and the tool should start. **Release** the trigger and the tool should stop. *If the tool malfunctions, repair or remove it from service immediately.*
The electric power supply must be connected to perform the above operation only.

Always use two hands when starting and stopping the tool.

- 1.2 Apply **Jarvis 1315 White Grease** to grease fitting (item 1). Apply grease to fitting by putting a grease gun through the grease holes located on the bottom cover (item 41). Refer to Figure 2.

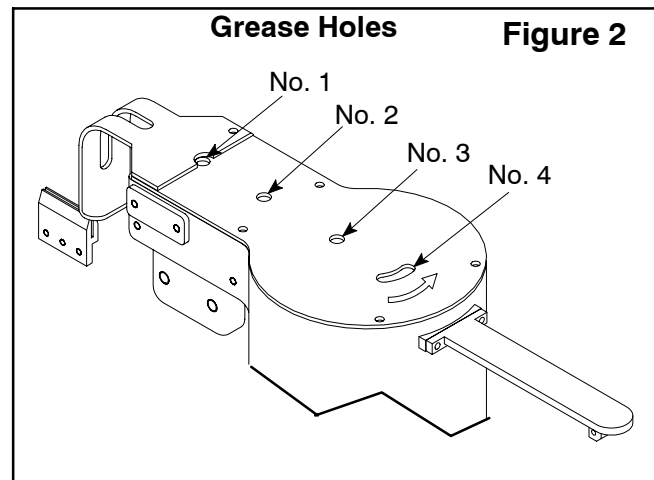
Note: Correct application of grease into grease fitting (item 1) depends on location of blade drive piston (item 9). If blade drive piston is fully extended, apply grease to hole number 1. If blade drive piston is fully retracted, apply grease to hole number 2.

- 1.3 Check all electrical plugs and cords (over their entire lengths) for cuts and abrasions. Replace if necessary.

2 MONTHLY:

- 2.1 Apply **Jarvis 1315 White Grease** to grease fitting (item 40). Apply grease to fitting by putting a grease gun through the grease holes located on the bottom cover (item 41). Refer to Figure 2.

Note: Correct application of grease onto grease fitting (item 40) depends on location of blade drive piston (item 9). If blade drive piston is fully extended, apply grease to hole number 3. If blade drive piston is fully retracted, apply grease to slot number 4.



- 2.2 Inspect for wear on blade side guides (item 10). Adjust for wear by removing outer set screws (item 5). Turn inner set screws (item 5) to adjust guide. Replace and tighten outer set screws to secure adjustment. Replace side guides if necessary.
- 3 **BLADE REMOVAL:**
 - 3.1 Remove hex head screws (item 6).
 - 3.2 Remove blade (item 8, 80 or 81) from blade drive piston (item 9).
 - 3.3 Slide blade (item 8, 80 or 81) through saw blade guard (item 7) and blade top guide (item 11).
- 4 **BLADE INSTALLATION:**
 - 4.1 Reverse steps and procedures outlined in section 3.

5 CRANK DISASSEMBLY:

- 5.1 Remove blade (item 8, 80 or 81). *Refer to steps and procedures outlined in section 3.*
- 5.2 Rest saw on its side.
- 5.3 Remove hex head screws (item 42) securing bottom cover (item 41) to main housing (item 28).
- 5.4 Remove saw blade guard (item 7) and bottom cover (item 41).
- 5.5 Wedge hardwood block between crank (item 33) and main housing (item 28) to prevent crank from rotating.
- 5.6 Unscrew and remove bearing cover (item 39).
- 5.7 If necessary, press grease fitting (item 40) out of bearing cover (item 39).
- 5.8 Remove hex head screw (item 38) and washer (item 37).
- 5.9 Remove grease fitting (item 1) and washer (item 2) from connecting link (item 35).
- 5.10 Remove connecting link (item 35).
- 5.11 Remove blade drive piston (item 9).
- 5.12 Press bushing (item 3) out of connecting link (item 35).
- 5.13 Press bearing (item 36) out of connecting link (item 35).
- 5.14 Remove socket head screws (item 4)
- 5.15 Remove blade side guides (item 10).
- 5.16 With crank (item 33) wedged, unscrew hex jam nut (item 34).

Note: Hex jam nut (item 34) is secured with a thread locking compound. Heat maybe required for removal.

- 5.17 Remove hardwood wedge.
- 5.18 Remove cheese head screws (item 23).
- 5.19 Remove motor cover (item 24).
- 5.20 Insert a 12 mm allen wrench onto rotor shaft (item 26).
- 5.21 Unscrew and remove crank (item 33).

Note: Crank (item 33) is secured with a thread locking compound. Heat maybe required for removal.

6 CRANK ASSEMBLY:

- 6.1 Reverse steps and procedures outlined in section 5. *See special notes below:*
 - 6.1.1 After completing assembly, make sure connecting link (item 35) and blade drive piston (item 9) move freely without any obstructions.
 - 6.1.2 If removed or replaced, bushing (item 3) and bearing (item 36) must be carefully pressed into connecting link (item 35).
 - 6.1.3 If removed or replaced, grease fitting (item 40) must be carefully pressed into bearing cover (item 39).
 - 6.1.4 Apply either *Loctite 271* or *Loctite 262* thread locking compound to crank (item 33) and hex jam nut (item 34).
 - 6.1.5 If blade side guides (item 10) have been replaced, set screws (item 5) must be readjusted. Refer to section 2.2 on page 8.

7 MOTOR DISASSEMBLY:

- 7.1 Move hanger (item 21) forward toward auxiliary handle (item 17).
- 7.2 Remove electric box cover (item 56 or 68) and gasket (item 58 or 67).
- 7.3 Loosen screws (item 51 or 69) on switch (item 50 or 73) to disconnect power cord (item 54 or 71) and motor lead wires.
- 7.4 Remove cheese head screws (item 23) from motor cover (item 24).
- 7.5 Remove motor cover (item 24). Use three extractor screws (m8 x 1.25 x 16 mm long, 1055905) to jack cover off main housing.
- 7.6 Insert a 12 mm allen wrench into rotor shaft (item 26) to prevent shaft from rotating.
- 7.7 Unscrew hex jam nut (item 34).

Note: Hex jam nut (item 34) is secured with a thread locking compound. Heat maybe required for removal.

- 7.8 Unscrew and remove crank (item 33).

Note: Crank (item 33) is secured with a thread locking compound. Heat maybe required for removal.

- 7.9 Remove rotor (item 26).
- 7.10 Remove bearing (item 25).
- 7.11 Remove beveled retaining ring (item 32).
- 7.12 Remove socket set screws (item 29).

- 7.13 Remove stator (item 27).
- 7.14 Press bearing (item 31) out of main housing (item 28).
- 7.15 Inspect all parts for wear and replace if necessary.

8 MOTOR ASSEMBLY:

- 8.1 Reverse steps and procedures outlined in section 7. *See special notes below:*
 - 8.1.1 Apply either *Loctite 271* or *Loctite 262* thread locking compound to crank (item 33) and hex jam nut (item 34).
 - 8.1.2 Check direction of motor. *Refer to Installation Instructions, step 2.7 on page 7.*
 - 8.1.3 Make sure beveled retaining ring (item 32) is correctly installed. *Refer to Figure 3.*

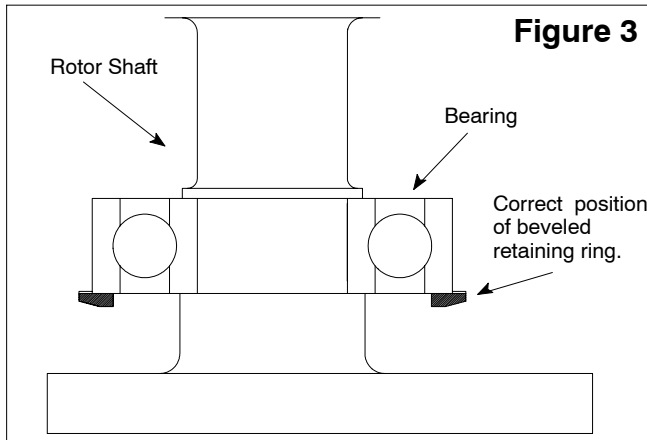


Figure 3

9 REAR HANDLE DISASSEMBLY:

- 9.1 Remove oval head screws (item 45).

- 9.2 Remove rear handle bracket (item 62).
- 9.3 Remove screws (items 53 or 69).
- 9.4 Remove cover (item 56 or 68) and gasket (item 58 or 67).
- 9.5 Loosen screws (item 51 or 69) on switch (item 50 or 73) to disconnect power cord (item 54 or 71) and motor lead wires.
- 9.6 Remove four (4) cheese head screws (item 59).
- 9.7 Pull away rear handle (item 61 or 75) enough to remove ground screw (item 59) fastening ground lug to main housing (item 28).
- 9.8 Remove cheese head screws (item 51 or 66) and switch holding clamp (item 52) and lift switch (item 50 or 73) from rear handle (item 61 or 75).
- 9.9 Remove trigger bushing (item 48) and plunger (item 49 or 74).
- 9.10 Inspect all parts for wear and replace if necessary.
- 9.11 Remove gasket (item 30).

10 REAR HANDLE ASSEMBLY:

- 10.1 Reverse steps and procedures outlined in section 9. *See special note below:*
 - 10.1.1 Make sure to install gasket (item 30) before connecting power cord wires (item 54 or 71) to switch (item 50 or 73) and installing cover (item 56 or 68).
- 10.2 Check direction of motor. *Refer to Installation Instructions, step 2.7 on page 7.*

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