

Bandsaw Blade Grinder

Tool Manual – Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

Model:

64500 (120v) 1 Phase 60 Hz



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⚠ WARNING

Read and understand this tool manual before operating your tool. Follow all safety rules for the protection of operating personnel as well as adjacent areas. For safety information, refer to Code of Federal Regulation – CFR 29 Part 1910, European Committee for Standards (EN) Hand Held Electric Motor Operated Tools – Safety Requirements and applicable State and Local Regulations.

SAFETY LEGEND

	<p>⚠ WARNING</p> <p>Read and understand tool manual before work starts to reduce risk of injury to operator, visitors, and tool.</p>	<p>⚠ WARNING</p> <p>Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.</p>	
	<p>⚠ WARNING</p> <p>Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1.</p>	<p>⚠ WARNING</p> <p>Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or local statutes, ordinances and/or regulations.</p>	
	<p>⚠ WARNING</p> <p>Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law.</p>	<p>⚠ WARNING</p> <p>Electric shock hazard. Avoid bodily contact with grounded objects, bodies of water. Do not damage cord set.</p>	

GENERAL SAFETY INSTRUCTIONS

Carefully Read and save all instructions before operating or servicing any Dynabrade® Abrasive Power Tool. Products offered by Dynabrade are not to be modified, converted or otherwise altered from the original design without expressed written consent from Dynabrade, Inc.

Warning: When using electric tools, basic safety precautions should always be followed to reduce the risk of a fire, electric shock, and personal injury, including the following:

- 1. Mount tool securely.** Always fasten tool to bench or other support structure to prevent tipping.
- 2. Keep work area clean.** Cluttered areas and benches invite accidents.
- 3. Consider work area environment.** Do not expose tools to rain. Keep work area well lit. Do not use power tools in damp or wet locations. Do not use tools in the presence of flammable liquids or gases.
- 4. Guard against electric shock.** Be certain machine is adequately grounded before operating.
- 5. Keep children away.** Do not let visitors contact tool. All visitors should be kept away from work area.
- 6. Do not force tool.** It will do a better and safer job at its intended rate.
- 7. Use the right tool.** Do not force a small tool or attachment to do the job of a heavy duty tool. Do not use tool for purposes not intended.
- 8. Dress properly.** Do not wear loose fitting clothing or jewelry. Clothes can be caught in moving parts. Wear protective hair covering to contain long hair.
- 9. Use safety glasses.** Also use face-shield or dust mask if operation area is dusty.

(continued on next page)

10. **Do not abuse cord.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
11. **Do not overreach.** Keep proper footing and balance at all times.
12. **Maintain tools with care.** Keep tools clean for better use and safer performance. Follow instructions for changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
13. **Do not leave tool running.** Disconnect tools when not in use, before servicing, when changing belts, contact arms, etc.
14. **Remove keys and wrenches.** Form a habit of checking to see that all keys and adjusting wrenches are removed from tool before turning it on.
15. **Avoid accidental starting.** Be sure switch is off when plugging in.
16. **Out-door use extension cords.** When tool is used outdoors, use only extension cord suitable for outdoor use. They should be marked with the suffix W-A (for UL) or W (for CSA in Canada).
17. **Stay alert.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
18. **Check damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, breakage of moving parts, binding of moving parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced. Do not use tool if switch does not turn tool on or off.
19. **Avoid gaseous areas.** Do not operate electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks can ignite fumes.
20. **Do not alter or misuse tool.** This tool is precision built. Any alteration or modification not specified is misuse and may result in a dangerous condition. Only these accessories and attachments that are found in this instruction manual are acceptable for use with this tool. The use of any other accessory or attachment might present a risk to the operator.
21. **Replacement parts.** When servicing, use only identical replacement parts. When ordering replacement parts, please specify model and serial numbers of your machine.
22. **Do not operate tool without guards.** Always replace guards after changing contact arm or abrasive belt.
23. **Do not mix grind material.** There is a potential combustion hazard if ferrous and non-ferrous grinding dust is mixed. Clean inside machine between materials.
24. **Use hearing protection.** Permanent hearing loss can result from high process noise levels.
25. **Use correct width abrasive belt.** Using abrasive belt that is narrower than the contact wheel can cause snagging of the workpiece.

Voltage Warning

Before connecting the tool to a power source (receptacle, outlet, etc.), be sure the voltage supplied is the same as what is specified on the nameplate of the tool. A power source with greater than that specified for tool can result in **serious injury** to the user as well as damage to the tool. Using a power source with voltage less than the nameplate rating is harmful to the tool's motor. If in doubt, **do not plug in the tool.**

Polarized Plugs: To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

Warning: Keep extension away from the immediate working area.

Maintenance Instructions

Electric motor maintenance should be performed as recommended by the motor manufacturer.

There are three grease fittings found on this machine, grease these fittings as needed. Please see assembly views to locate grease fittings.

Good housekeeping is essential to insuring long life of any machine tool. By keeping the machine clean and visually inspected for any wear, the machine will provide many years of service.

Before each use inspect the contact wheels, idler rolls and drive pulley for any signs of wear. Repairing or replacing worn parts early enough will prevent other parts from becoming damaged.

Notice

All Dynabrade tools use the highest quality parts and metals available and are machined to exacting tolerances. Our warranty obligation is contingent upon proper use of our tools and cannot apply to equipment which has been subjected to misuse or a lack of maintenance during the use of this tool.

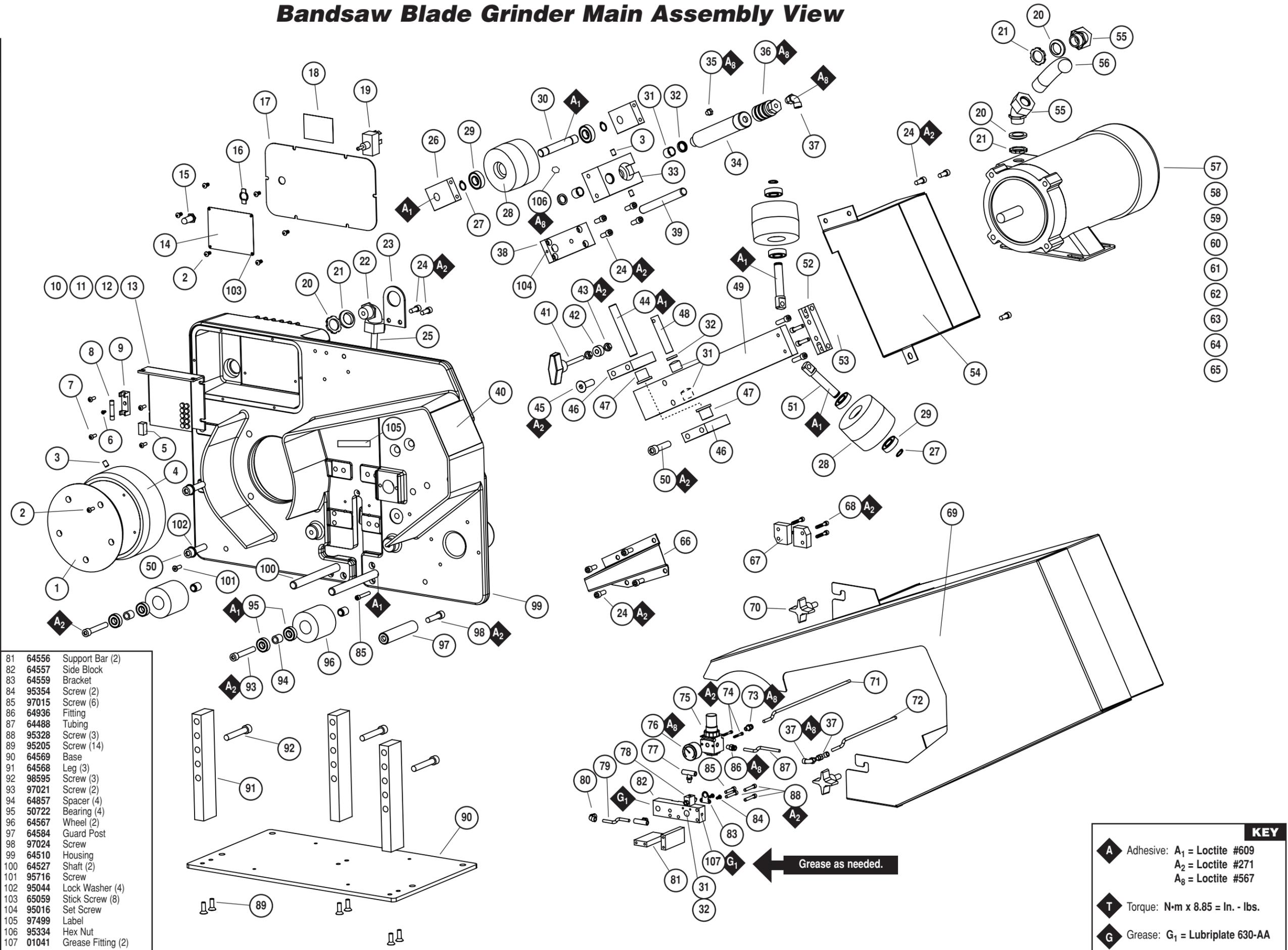
One Year Warranty

Following the reasonable assumption that any inherent defect which might prevail in a product will become apparent to the user within one year from the date of purchase, all equipment of our manufacture is warranted against defects in workmanship and materials under normal use and service. We shall repair or replace at our factory, any equipment or part thereof which shall, within one year after delivery to the original purchaser, indicate upon our examination to have been defective. Our obligation is contingent upon proper use of Dynabrade tools in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment which has been subject to misuse, negligence, accident or tampering in any way so as to affect its normal performance. Normally wearable parts such as bearings, contact wheels, rotor blades, etc., are not covered under this warranty.

For Model:
64500

Bandsaw Blade Grinder Main Assembly View

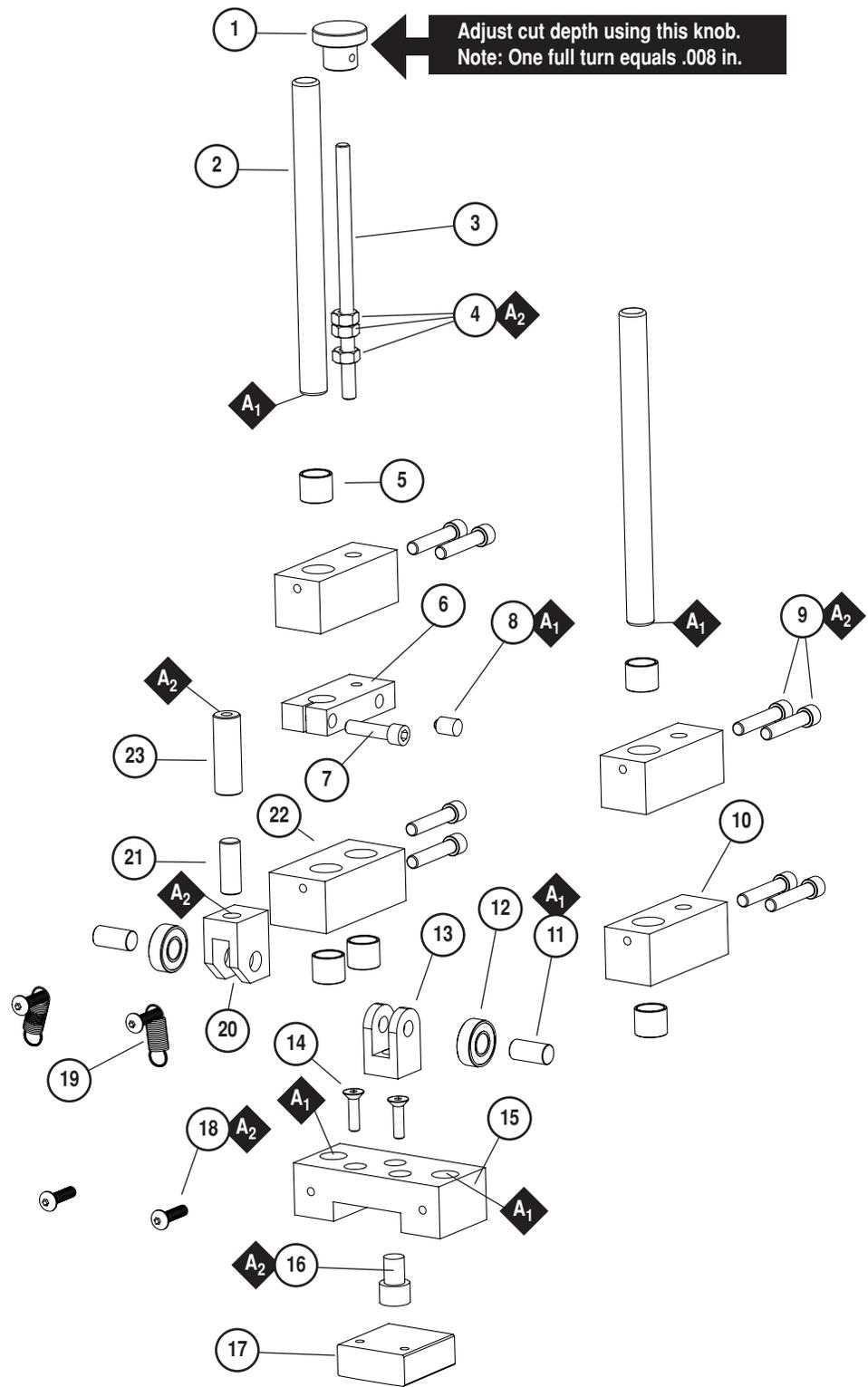
No.	Part #	Description
1	57764	Pad
2	95207	Screw (11)
3	95202	Set Screw (3)
4	64526	Drive Wheel
5	64521	Resistor
6	95437	Screw
7	95007	Screw (4)
8	64523	Fuse
9	64847	Fuse Block
10	64520	Speed Control
11	97595	Thermal Compound
12	98613	Push on Terminal (3)
13	98610	Wire Terminal 8 Screw (2)
14	64930	Warning Plate
15	98499	Toggle Boot
16	98500	On/Off Plate
17	64525	Switch Plate
18	64929	Dynabrade Logo
19	98369	Toggle Switch
20	98751	Sealing Ring (3)
21	98746	Lock Nut (3)
22	98709	Elbow
23	14333	Hoist Bracket
24	95536	Screw (15)
25	98418	Cord
26	64948	Support (2)
27	95697	Ring (4)
28	64950	Idler Wheel (3)
29	11813	Bearing (6)
30	64949	Shaft
31	65217	Bushing (5)
32	97812	Rod Seal (4)
33	64943	Cylinder Mount
34	64947	Air Cylinder
35	97889	Vent
36	64933	Slide Valve
37	97828	Right Angle Fitting (3)
38	64944	Support Base
39	64946	Guide Rod
40	97496	Belt Location Label
41	95314	Tracking Knob
42	64596	Ball Joint
43	95186	Nut (2)
44	64564	Pivot Post
45	97086	Screw (2)
46	64561	Arm Support (2)
47	97538	Bushing (2)
48	64563	Tracking Post
49	64562	Idler Support Arm
50	97034	Screw (6)
51	64566	Idler Axle (2)
52	64565	Pivot Block
53	95156	Screw (4)
54	64585	Rear Guard
55	98730	Elbow (2)
56	98403	Conduit
57	98020	DC Motor
58	98421	115V Label
59	98425	Single Phase Label
60	98420	Direction Arrow
61	98611	Wire Terminal
62	98407	Green Wire (2)
63	98406	Red Wire (2)
64	98405	Black Wire (2)
65	98616	Wire Connector (2)
66	64582	Vac Scoop
67	64560	Guide Block (2)
68	95926	Screw (4)
69	64581	Cover
70	97597	Knob (2)
71	64486	Tubing
72	64487	Tubing
73	97827	Tube Fitting
74	97008	Screw (2)
75	97894-C	Regulator
76	95696	Pressure Gauge
77	64599	Tube Tee (2)
78	64558	Valve
79	64489	Tubing
80	97826	Right Angle Fitting
81	64556	Support Bar (2)
82	64557	Side Block
83	64559	Bracket
84	95354	Screw (2)
85	97015	Screw (6)
86	64936	Fitting
87	64488	Tubing
88	95328	Screw (3)
89	95205	Screw (14)
90	64569	Base
91	64568	Leg (3)
92	98595	Screw (3)
93	97021	Screw (2)
94	64857	Spacer (4)
95	50722	Bearing (4)
96	64567	Wheel (2)
97	64584	Guard Post
98	97024	Screw
99	64510	Housing
100	64527	Shaft (2)
101	95716	Screw
102	95044	Lock Washer (4)
103	65059	Stick Screw (8)
104	95016	Set Screw
105	97499	Label
106	106	Hex Nut
107	01041	Grease Fitting (2)



KEY	
A	Adhesive: A ₁ = Loctite #609 A ₂ = Loctite #271 A ₈ = Loctite #567
T	Torque: N·m x 8.85 = In. - lbs.
G	Grease: G ₁ = Lubriplate 630-AA

Bandsaw Blade Grinder Depth Cut Assembly

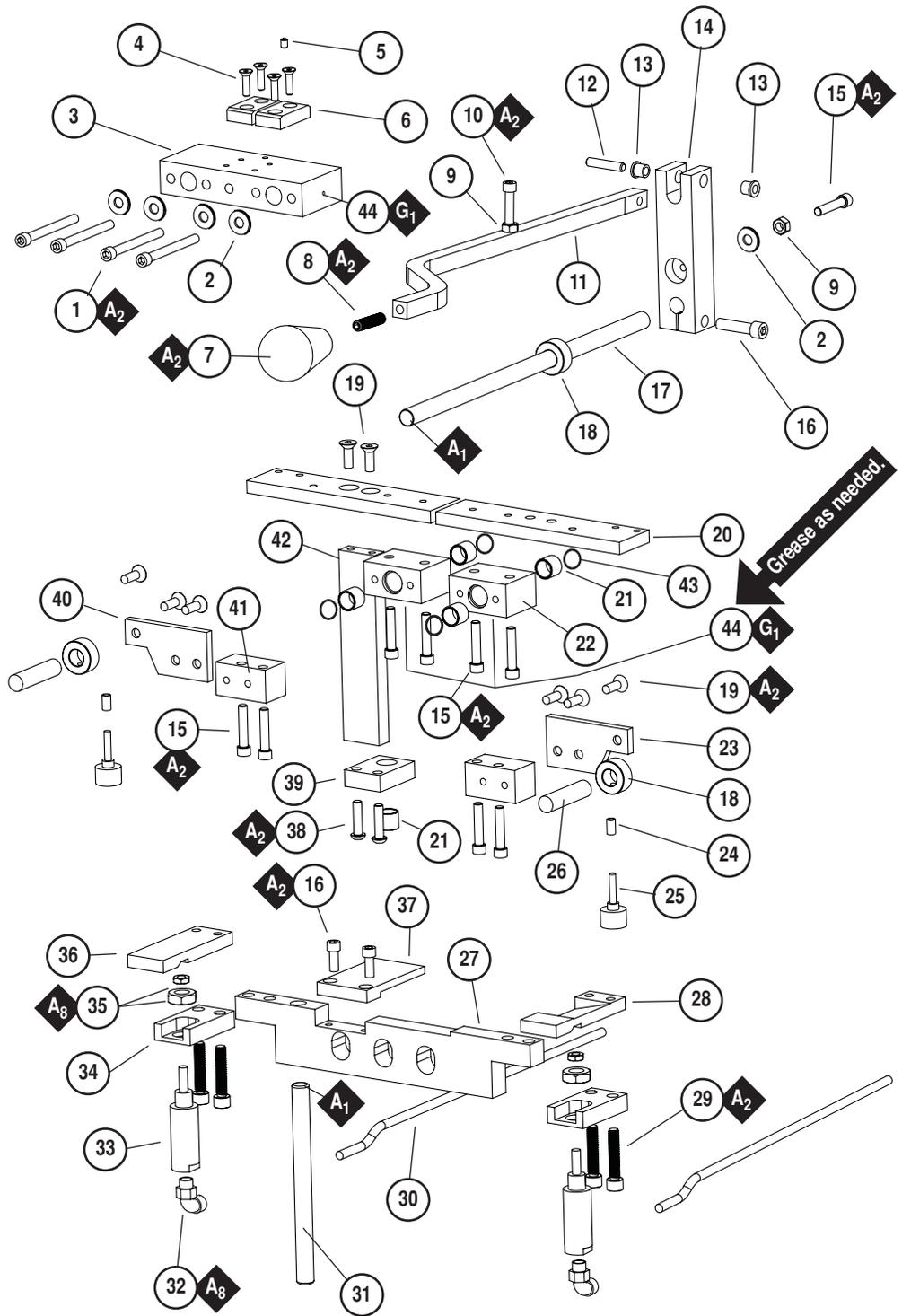
Index Key		
No.	Part #	Description
1	64552	Stop Knob
2	64527	Shaft (2)
3	64551	Rod
4	95186	Nut (3)
5	65217	Bushing (5)
6	64550	Block
7	95156	Screw
8	95824	Plunger
9	97015	Screw (8)
10	64546	Support (3)
11	64598	Pin (2)
12	50722	Bearing (2)
13	97874	Clevis
14	95019	Screw (2)
15	64548	Block
16	98596	Screw
17	64549	Platten
18	95163	Screw (4)
19	64597	Spring (2)
20	64555	Clevis
21	64553	Cup Point
22	64547	Support
23	64554	Sleeve



KEY
 Adhesive: A₁ = Loctite #609
 A₂ = Loctite #271

Bandsaw Blade Grinder Blade Lock and Slide

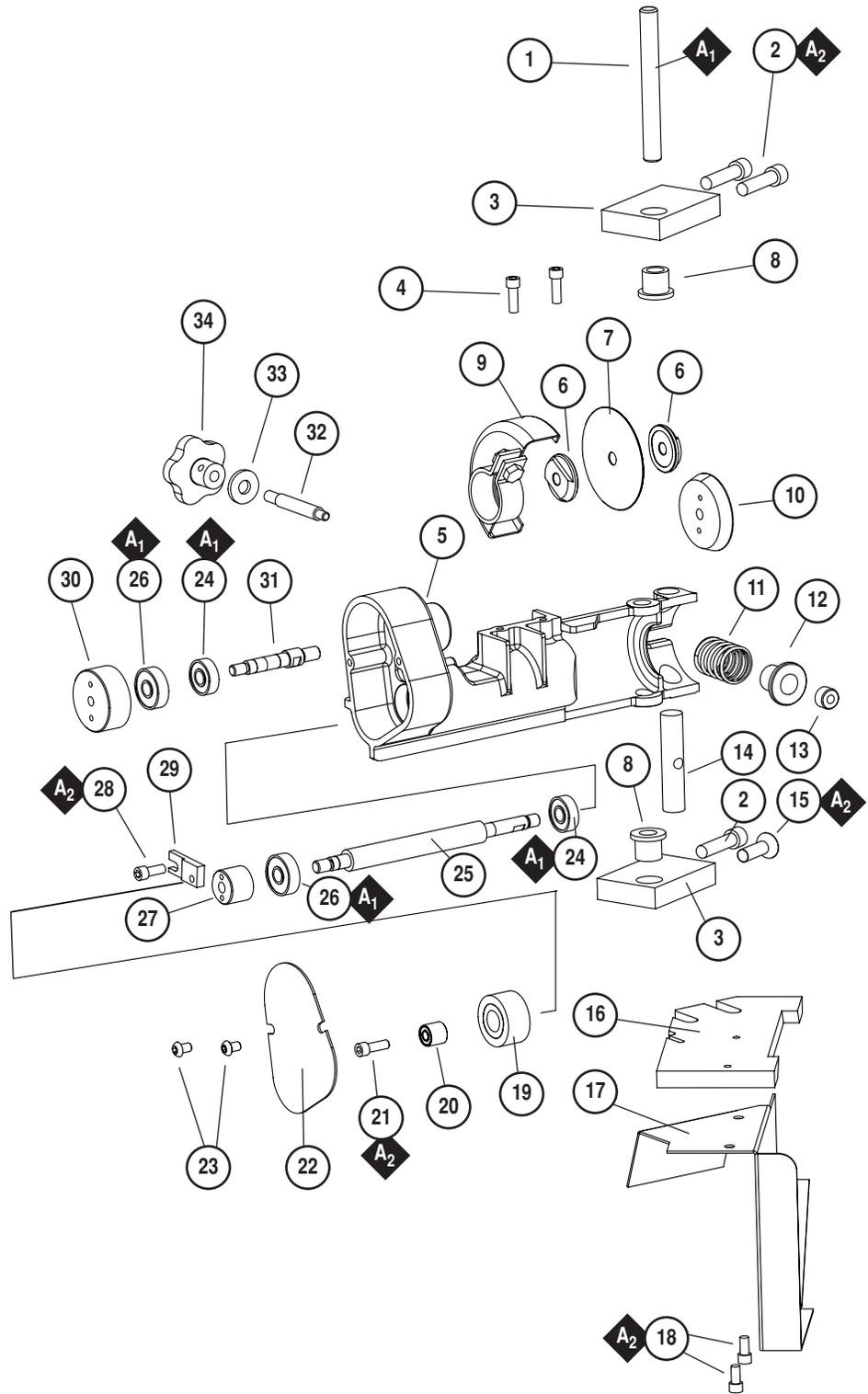
Index Key		
No.	Part #	Description
1	97593	Screw (4)
2	95935	Washer (5)
3	64529	Alignment Bar
4	95019	Screw (4)
5	95016	Screw
6	64543	Land (2)
7	64545	Knob
8	95970	Screw
9	95186	Nut (2)
10	95156	Screw
11	64532	Arm
12	95332	Pin
13	11519	Bushing (2)
14	64531	Arm Pivot
15	97015	Screw (9)
16	97024	Screw
17	64530	Shaft
18	97494	Shaft Collar (3)
19	95205	Screw (8)
20	64533	Blade Rest (2)
21	65217	Bushing (5)
22	64528	Bearing Support (2)
23	64595	Right Post Bar
24	97495	Spacer (2)
25	95218	Knob (2)
26	64587	Stop Post (2)
27	64536	Base Support
28	64542	Right Clamp Bar
29	97025	Screw (4)
30	64485	Tubing (2)
31	64527	Shaft
32	97828	Right Angle Fitting (2)
33	64534	Air Cylinder (2)
34	64535	Support (2)
35	40546	Jamb Nut (2)
36	64540	Left Clamp Bar
37	64544	Base
38	97591	Screw (2)
39	64538	Support
40	64594	Left Post Bar
41	64588	Spacer (2)
42	64537	Support Bar
43	97812	Seal (4)
44	01041	Grease Fitting (2)



KEY	
A	Adhesive: A ₁ = Loctite #609 A ₂ = Loctite #271 A ₃ = Loctite #567
G	Grease: G ₁ = Lubriplate 630 AA

Bandsaw Blade Grinder Gullet Cut Assembly

Index Key		
No.	Part #	Description
1	64946	Guide Rod
2	97034	Screw (3)
3	64589	Support (2)
4	95150	Screw (2)
5	64570	Housing
6	50269	Flange Set
7	94903	Cut-Off Wheel
8	97538	Bushing (2)
9	53633	Guard
10	64575	Drive Wheel
11	97474	Spring
12	64590	Spring Base
13	64591	Spring Top
14	64572	Locking Pivot
15	97086	Screw
16	64571	Work Rest
17	64586	Pivot Guard
18	95335	Screw (2)
19	64577	Drive Wheel
20	11013	Bearing
21	95239	Screw
22	64583	Cover
23	97013	Screw (2)
24	56258	Bearing (2)
25	64574	Shaft
26	54520	Bearing (2)
27	64579	Drive Wheel
28	95536	Screw
29	64580	Wheel Plate
30	64578	Driven Wheel
31	64573	Axle
32	64592	Spring Rod
33	97330	Washer
34	64593	Knob



KEY
 A Adhesive: A₁ = Loctite #609
 A₂ = Loctite #271

Machine Specifications

Model Number	Voltage	Phase	Frequency	Weight Pound (kg)	Width Inch (mm)	Depth Inch (mm)	Height Inch (mm)
64500	120 V(AC)	1	60 Hz	145 (65.8)	34-1/2 (876)	23 (584)	26 (660)

Abrasive Belts

Grit	Material	1" x 104" (25 mm x 2,640 mm)	1-1/2" x 104" (38 mm x 2,640 mm)
50	Alumina Zirconia	89226	89225
80	Alumina Zirconia	89228	89227

Abrasive Disc

Grit	Material	6" Diameter
60	Non-Vac, Hook-It	93319

Reference Contact Information

- American National Standards Institute – ANSI**
 25 West 43rd Street
 Forth Floor
 New York, NY 10036
 Tel: 1 (212) 642-4900
 Fax: 1 (212) 398-0023
- Government Printing Office – GPO**
 Superintendent of Documents
 Attn. New Orders
 P.O. Box 371954
 Pittsburgh, PA 15250-7954
 Tel: 1 (202) 512-1803
- European Committee for Standardization**
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