

KI **KALAMAZOO**
INDUSTRIES, INC.
KALAMAZOO, MI.



PH: (269) 382-2050

www.kalamazooind.com

BG448 4" X 48" BELT GRINDER WITH MANUAL



MADE IN USA

KI KALAMAZOO INDUSTRIES, INC. KALAMAZOO, MI

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WARRANTY

All products are guaranteed for a period of one year from receipt of order to the original purchaser, against defects in material workmanship under normal use. Electric motors are warranted by the motor manufacturer for a period of one year and will be repaired by the nearest motor repair station. If non-repairable, they will be replaced by Kalamazoo Industries. Please call for instructions (269) 382-2050.

RETURN POLICY

Authorization must be obtained before returning merchandise. Please call our customer service department for a return authorization number (269) 382-2050. Please include with your return a copy of your invoice of packing slip. All material must be new and unused in the original packaging. Material must be sent back prepaid (unless otherwise indicated) by Kalamazoo Industries. Credit upon inspection at Kalamazoo Industries. All returns will be subject to a 10% restock charge. Used merchandise is non-returnable. No returns will be accepted after one year of invoice date.

BELT GRINDER SAFETY

- READ THE OPERATING INSTRUCTIONS BEFORE RUNNING MACHINE.
- ALWAYS WEAR SAFETY GLASSES OR A FULL FACE SHIELD FOR PROTECTION.
- KEEP HANDS CLEAR OF THE SANDING AREA.
- NEAR WEAR GLOVES OR LOOSE FITTING CLOTHES WHEN OPERATING THIS MACHINE.
- ALWAYS KEEP HAIR TIED BACK OR COVERED.
- LET MACHINE ROTATION COME TO A FULL STOP BEFORE CHANGING BELT.
- KEEP SAFETY GUARDS IN PLACE. DO NOT ALTER GUARD OR MACHINE IN ANYWAY. ANY ALTERATIONS TO GUARDS OR MACHINE COULD CAUSE SERIOUS INJURY.
- ALL BELT SANDERS SHOULD BE OPERATED IN A WELL-VENTILATED AREA. THE DUST CREATED WHEN SOME MATERIALS ARE SANDED CAN BE HARMFUL. DUST MASKS ARE RECOMMEND AS A PRACTICAL MEAN OF MINIMIZING DUST INHALATION. FUMES FROM OTHER OTHER SOURCES CAN ALSO CAUSES FIRES WHEN INTACT WITH SANDING SPARK.
- SPARKS CREATED BY SANDING SHOULD BE DIRECTED DOWNWARD AND AWAY FROM THE FACE AND BODY. DON NOT GRIND NEAR FLAMMABLE MATERIAL.
- ELECTRIC SANDING MACHINES ARE NOT INTENDED FOR USE IN OR NEAR WATER. THIS INCLUDES AN OPERATOR STANDING ON A WET FLOOR OR WORKING AROUND CONTAINERS OF WATER OR OTHER CONDUCTIVE LIQUIDS.
- CLEAN DUST COLLECTOR OUT AND DON'T MIX MATERIALS.

BASIC BELT GRINDER OPERATION

CAUTION

DISCONNECT POWER BEFORE SERVICING MACHINE

Disconnect power before many any adjustments

BELT CHANGING - Use lever #1 to release belt tension. Pull lever to compress spring, remove and replace sanding belt. Push lever back to tension sanding belt.

BELT TRACKING - Use tracking hex to track or “center” the sanding belt rotate sanding belt by hand to be sure of sanding belt centering. When sanding belt remains centered on the steel platen #27 tracking is complete. **Connect AC power and “jog” on/off switch** to be sure sanding belt stays in the center of the platen and is tracked correctly. **CAUTION: New** sanding belts may not track consistently until run or used several times.

PLATEN: Steel plate or “platen” is behind the sanding belt. It will wear over time and can be flipped over to use a new surface area. Remove cap screws on the platen and flip for new surface area.

WORK TABLE: Item #29. Always keep work table within 1/8” of the sanding belt. Too large of a gap will allow work pieces and fingers to get pinched between the belt and platen. **CAUTION: DO NOT WEAR GLOVES!!!!**

MAINTENANCE: Always disconnect power before servicing machine. Keep machine clean. Flip or rotate platen when impressions wear into it. No grease is required. All bearings sealed for life of the bearing.

TROUBLING SHOOTING: Basic machine needs very little maintenance other than tracking the sanding belt. If sanding belt does not stay tracked typically the contact wheel (#23) has lost it’s “crown”. The drive pulley is tapered down from the center out to each edge slightly. This makes the sanding belt stay in the center of “tracked”. If drive pulley lost it’s “crown” you will need to replace the drive pulley.

IMPORTANT SAFETY INFORMATION

SAFETY: See safety sheets for all safety information. **ALWAYS WEAR SAFETY GLASSES, NEVER WEAR GLOVES OR NEVER HAVE LOOSE ARTICLES OF CLOTHING AND ALWAYS TIE BACK HAIR.**

KI KALAMAZOO INDUSTRIES, INC.

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BG448 Revision #1 Angle change



To change sanding head angle:
Locate 2 opposing holes in the
contact wheel, use a 5/16"
Allen T wrench and slightly
loosen the 2 cap screws,
Rotate the sanding head
to desired position, re-
tighten cap screws.
CAUTION: DO NOT LOOSEN CAP
SCREWS VERY MUCH AS SANDER
FRAME MAY RELEASE FROM c FACE
MOTOR.



CHANGING GRINDER POSITION

Use 5/16" HEX KEY THRU CONTACT WHEEL ACCESS HOLES TO LOOSEN ALLEN CAP SCREWS JUST SLIGHTLY (DO NOT REMOVE CAP SCREWS) THEN ROTATE GRINDER FRAME TO HORIZONTAL AND RE-TIGHTEN ALLEN CAP SCREWS.

ACCESS HOLES



SECTION E-E

IDLER PULLEY DETAILS

DETAIL A
SCALE 1 : 1
MOTOR MOUNT DETAILS

DETAIL D

DOOR FASTENER DETAILS

ORDER PART #342-088
IF A REPLACEMENT
DOOR IS NEEDED

SECTION C-C
DRIVE PULLEY DETAILS

SECTION B-B

ATTACHING MAIN FRAME TO MOTOR

X 4 PLACES

175

LONGER DISTANCE TO
SNAP GROOVE RING ON
IDLE PULLEY SHAFT.
CENTERDRILL MARK ON
THIS SIDE


LONGER DISTANCE TO
SNAP GROOVE RING
ON IDLE PULLEY SHAFT.
CENTERDRILL MARK ON
THIS SIDE

26 X 3 PLACES

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	829-055	BASE FOR BG248 AND BG448 TO BENCH MOUNT MACHINE	1
2	486-007CF	3HP MOTOR FOR BG448	1
3	HHCS5031016	5/16-18 X 1 HHCS GR5 Z	8
4	SLW2031	5/16 SPLIT L/W Z	8
5	UPW2031	5/16 USS F/W Z	13
6	FHN5031	5/16-18 FHN GR5 ZINC	5
7	291-051	FABRICATED MAIN FRAME ASSEMBLY FOR BG448	1
8	SHCA037016	3/8-16 X 1 SHCS	2
9	SLW2037	3/8 SPLIT L/W Z	3
10	UPW2037	3/8 USS F/W Z	3
11	291-050	FABRICATED YOKE SHAFT FRAME FOR BG448	1
12	960-002	YOKE FOR S4 SANDER	1
13	560-006AL	BG448 IDLER PULLEY W/ BEARINGS	1
14	701-0085	IDLER SPINDLE FOR BG448 BELT GRINDER	1
15	EERR0.5	EERR1/2 1/2" E RETAINING RING	2
16	SSKA010004	10-24 X 1/4 SOC SET KNURL PT	2
17	700-042	YOKE SHAFT FOR BG448	1
18	697-024	S6 BELT TENSION SPRING	1
19	123-034	TENSION SHAFT COLLAR FOR BG448	1
20	292-0238	WHEEL ADAPTOR FOR 936-018 AND 936-033	1
21	292-023C	SPINDLE ADAPTOR FOR BG448	1
22	292-027	LOOSE FLANGE FOR WHEEL ADAPTOR FOR 29572 AND BG448 (NEW STYLE)	1
23	SSA025003	N134-B-4-0-C/7072 874" CONTACT WHEEL 70 DURO, SERRATED FOR BG448	1
24	SSA025008	1/4-20 X 1/2 SOC SET FLIP DOG PT	3
25	049-062	P2-1-1/8 SPLIT TAPER BUSHING FOR K3390HV, 490HV, BG448, 690HV-5HP DRIVE WHEEL	1
26	FSCA037016	3/8-16 X 1 FSHCS	3
27	563-044	PLATEN FOR BG448	1
28	FSCA025016	1/4-20 X 1 FSHCS	2
29	829-034	CAST IRON WORK TABLE FOR S272, S460, AND BG448	1
30	HHCS5037020	3/8-16 X 1-1/4 HHCS GR5 Z	1
31	CRM2010024	10-24 X 1-1/2 COMBO ROUND M/S Z	1
32	697-011	TRACKING SPRING FOR S4	1
33	HHCS5031020	5/16-18 X 1-1/4 HHCS GR 5 Z	2
34	SSA025022	1/4-20 X 1-3/8 SOC SET CUP PLT. PT	2
35	FHN5025	1/4-20 FHN GR5 Z	2
36	UPW2025	1/4 USS F/W Z	4
37	WGN2025	1/4-20 FORGED WING NUT Z	2
38	381-023	TENSION RELEASE HANDLE FOR BG448M	1
39	BSCA025016	1/4-20 X 1 BSHCS	1
40	RND-3/4CFX1018X0.875	5/8 INCHES OF RAW MATERIAL RND-3/4 CF C1018	1
41	BWWA031	5/16 BOWED SPRING WASHER 21/64	1
42	699-053	SPACER, TENSION HANDLE FOR BG448	1
43	STNZ031	5/16-18 STOVER LOCK NUT ZINC-WAX	1
44	BSCA025008	1/4-20 X 1/2 BSHCS	2
45	342-010	UMBRELLA GUARD ASSEMBLY FOR BG448 SANDER	1

NOTE #1: 936-033 ASSY INCLUDES THE FOLLOWING:

936-033
049-062
292-023B
292-027
292-023C

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES TOLERANCES: HORIZONTALS: .001" / .002" ANGLES: .001" / .002" TWO PLACE DECIMAL THREE PLACE DECIMAL		DRAWN		
		INTERPRET GEOMETRIC TOLERANCES TO MATERIAL		CHECKED		TITLE: <div style="text-align: center;"> <h1>BG448 ASSEMBLY</h1> </div>
				END DATE		
				G.A.		SIZE DWG. NO. REV <div style="text-align: center;"> <h2>E BG448 ASSEMBLY</h2> </div>
				COMMENTS:		
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