



S8W Series Wet Belt Sanders Instruction Manual

Covers S8W, and S8HW – 8" x 60" Wet Belt Sanders

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GENERAL POWER TOOL SAFETY WARNINGS



WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN, LIQUID, OR MOISTURE.

READ AND SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

PRECAUTIONS

- Always wear safety glasses when operating power tools.
- Keep work area clean and well lit.
- Do not operate power tools in explosive atmospheres, such as the presence of flammable liquids, gases or dust.
- Keep children and bystanders away while operating a power tool.
- Keep long hair tied back or covered and never wear loose fitting clothing near a running machine.
- Additional precautions may be necessary when grinding materials that are flammable or have other hazardous properties. Consult manufacturer of materials for safe grinding and handling.

OPERATING INSTRUCTIONS

- Disconnect power before making any adjustments
- Abrasive belt rotation is counterclockwise. If the abrasive belt is lap spliced, be sure of correct rotation. Butt spliced belts are bi-directional.

Belt Tensioning

- Belt tension is pre-set with air regulator (45,48). No belt tension adjustment is needed. Set air pressure to **40 PSI** for proper belt tension. **Do not exceed 50 PSI.**
 - Use the air valve (45, 48) to apply or release belt tension.
 - Always release air pressure after daily use to reduce unnecessary belt stretching.

OPERATING INSTRUCTIONS – Continued

- Examine the abrasive belt carefully before use. Never use an abrasive belt with a nicked or cut edge, crease, or handling damage.
- Coolant Use a rust-inhibiting coolant. Consult your dealer for specifications.

Belt Changing

- Turn the machine OFF.
- Release air pressure with the control valve—the upper pulley will retract to release tension.
- Open the guard door and remove the sanding belt.
- Install the new belt.
 - Check for directional arrows inside the belt and align correctly.
- Close the guard door securely.
- Reapply tension using the control valve.

Belt Tracking

- After applying belt tension, use the JOG switch and tracking knob to align the belt.
 - Multiple jogs may be needed to center the belt.
 - While holding the JOG switch, adjust the tracking knob:
 - Turn clockwise → tilts pulley upward, moving the belt away from the machine frame.
 - Turn counter - clockwise → tilts pulley downward, moving the belt toward the machine frame.
 - Once the belt is properly tracked in JOG mode, switch to RUN mode.
 - Warning: Keep hands clear of the belt when powering on.
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Maintenance:

- Keep the coolant tank clean. Direct coolant line into a container to drain.
- Wipe out swarf from the tank bottom.
- Vary sanding area to prevent wear on the sanding frame.
- Replace drive pulley if crown is worn flat.
- Replace idler pulley if bearing fail.

V – belt Inspection:

- Inspect the V-belt (cracks/glaze/fray) and verify pulley alignment.
- Tension check: At the midpoint, pinch the belt—aim for about 1/4" squeeze. More = too loose; less = too tight.
- Adjust: Loosen motor mounts (10, 7), shift the motor to set tension/alignment, then retighten. Run briefly, power down, and recheck.
- New belts stretch—re-tension after the first hour and periodically. Loose belts slip/wear fast; overtight belts stress bearings.

Note

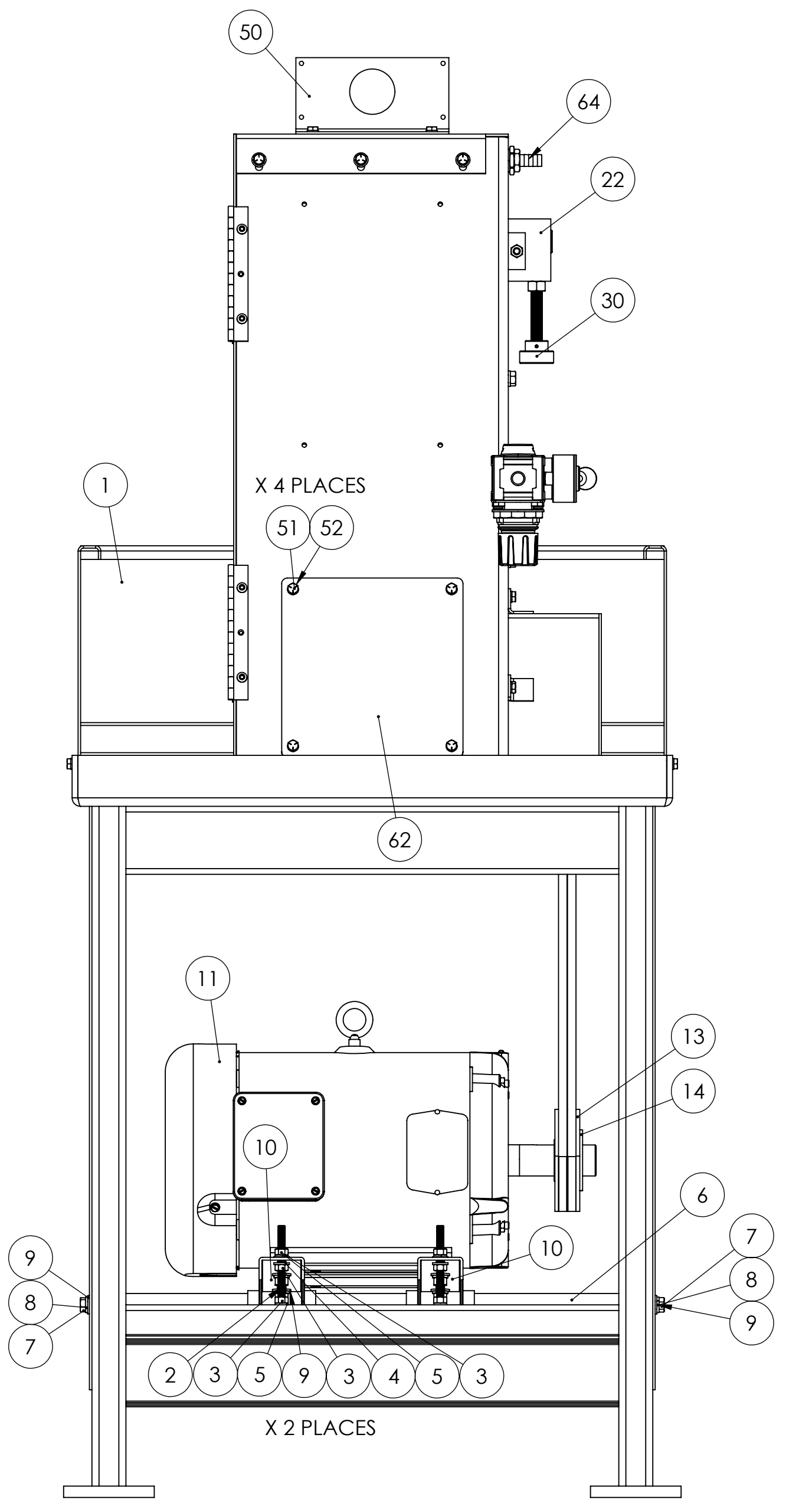
- Examine the abrasive belt carefully before use. Never use an abrasive belt with a nicked or cut edge, crease, or handling damage.
 - If using a dust collector, empty the base and check or replace the filter regularly to maintain performance and prevent combustible buildup.
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WARRANTY: All products are guaranteed for a period of one year to the original purchaser, against defects in material workmanship under normal use. Exclusions may apply.

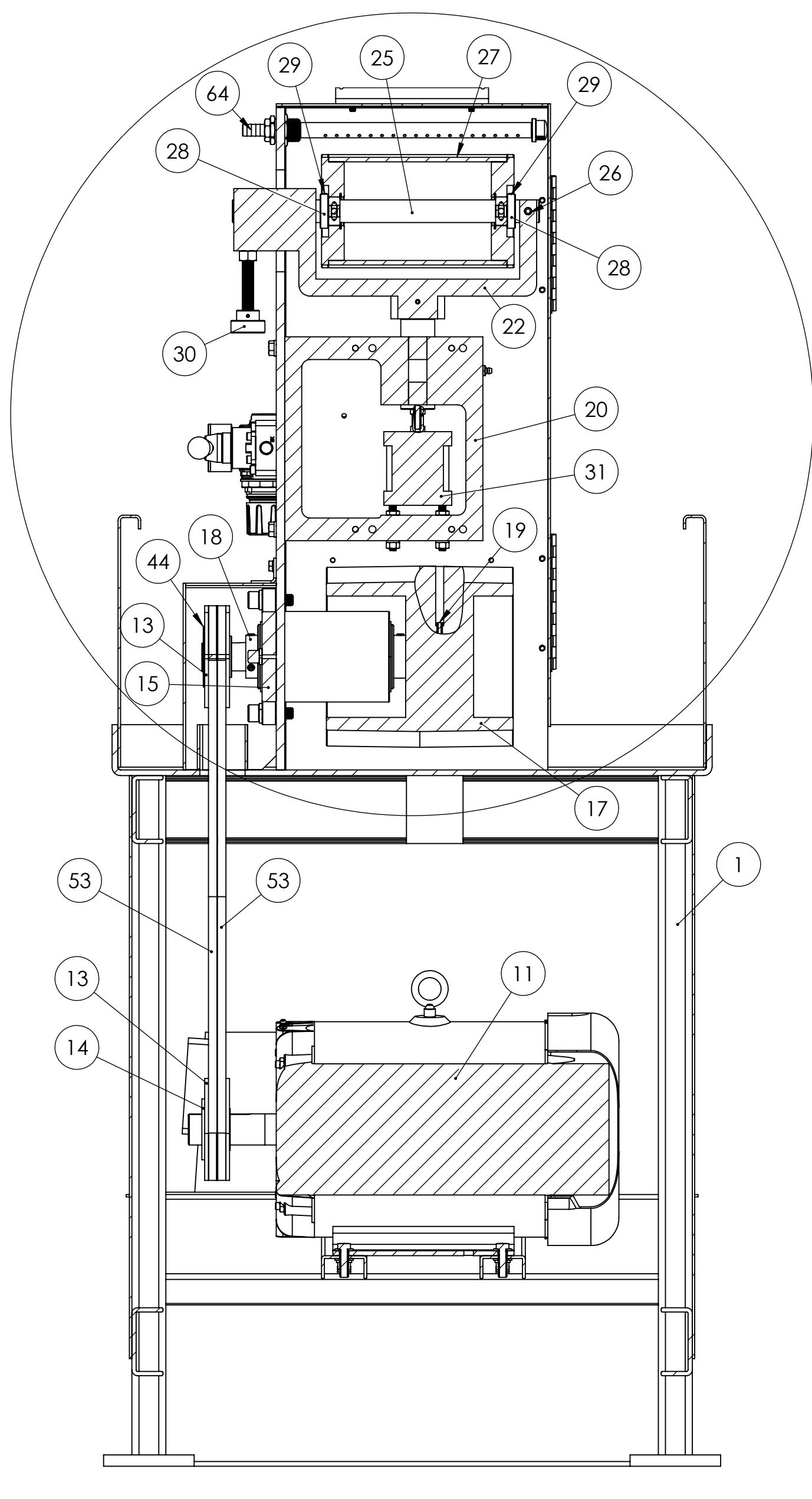
RETURN POLICY: Authorization must be obtained BEFORE returning merchandise. Contact our customer service department at 269-382-2050 for a return authorization number. Include with your return a copy of your invoice or packing slip. Materials must be sent back prepaid unless otherwise indicated. All returns will be subject to a 10% restocking charge. No returns will be accepted after one year of the invoice date.

BELT SANDER SAFETY:

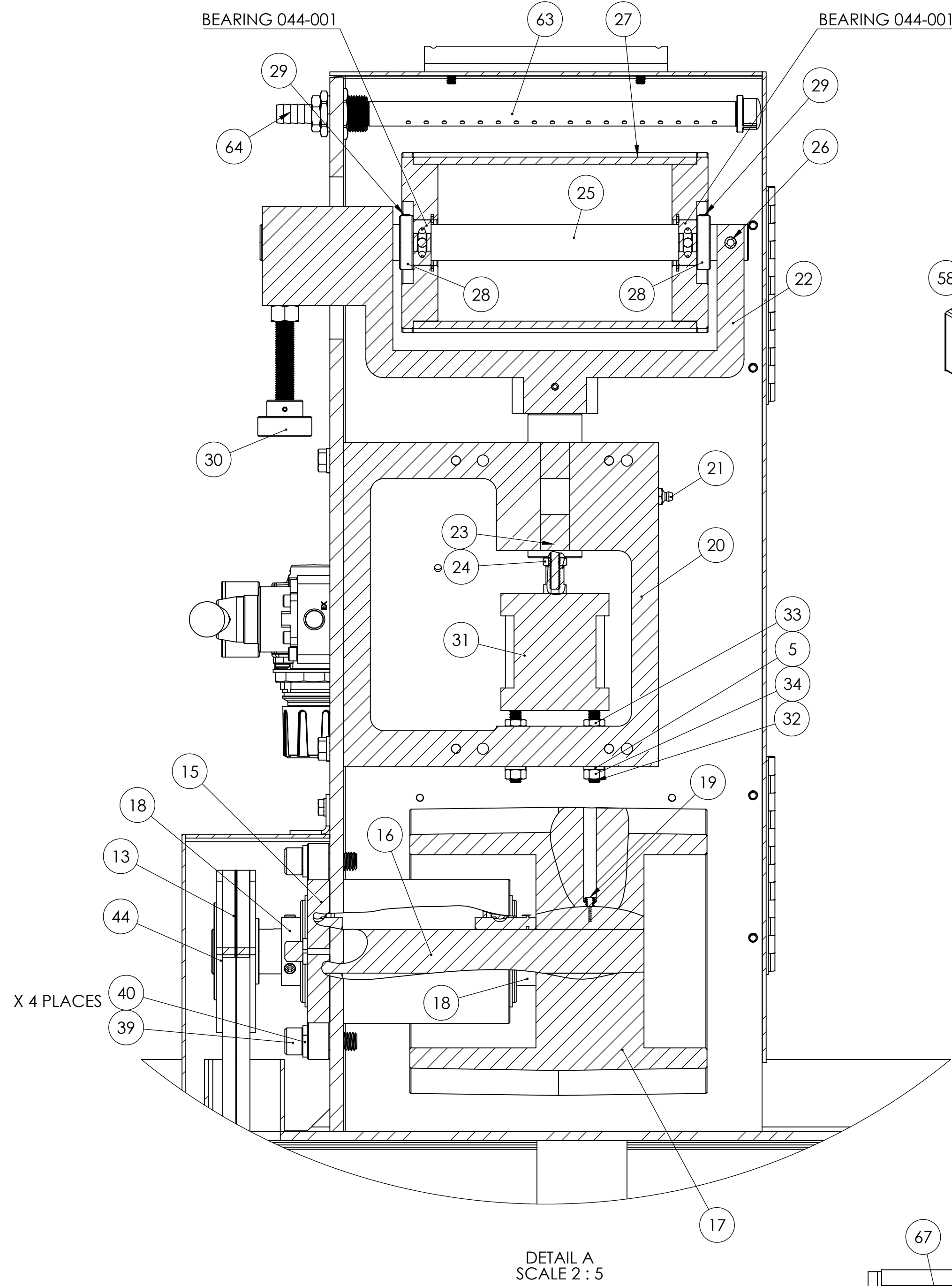
- 1) Read the operating instructions before running machine.
- 2) Always wear safety glasses or a full-face shield for protection.
- 3) Keep hands clear of the sanding area.
- 4) Never wear gloves or loose-fitting clothing when operating this machine.
- 5) Always keep hair tied back or covered.
- 6) Let machine rotation come to a full stop before changing belt.
- 7) Keep Safety guards in place. Do not alter guards or machine in any way. Any alterations to guards or machine could cause serious injury.
- 8) 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 recommended as practical means of minimizing dust inhalation. Fumes from other sources can also cause fires when in contact with sanding sparks.
- 9) Sparks created by sanding should be directed downward and away from the face and body. Do not grind near flammable material.
- 10) 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.



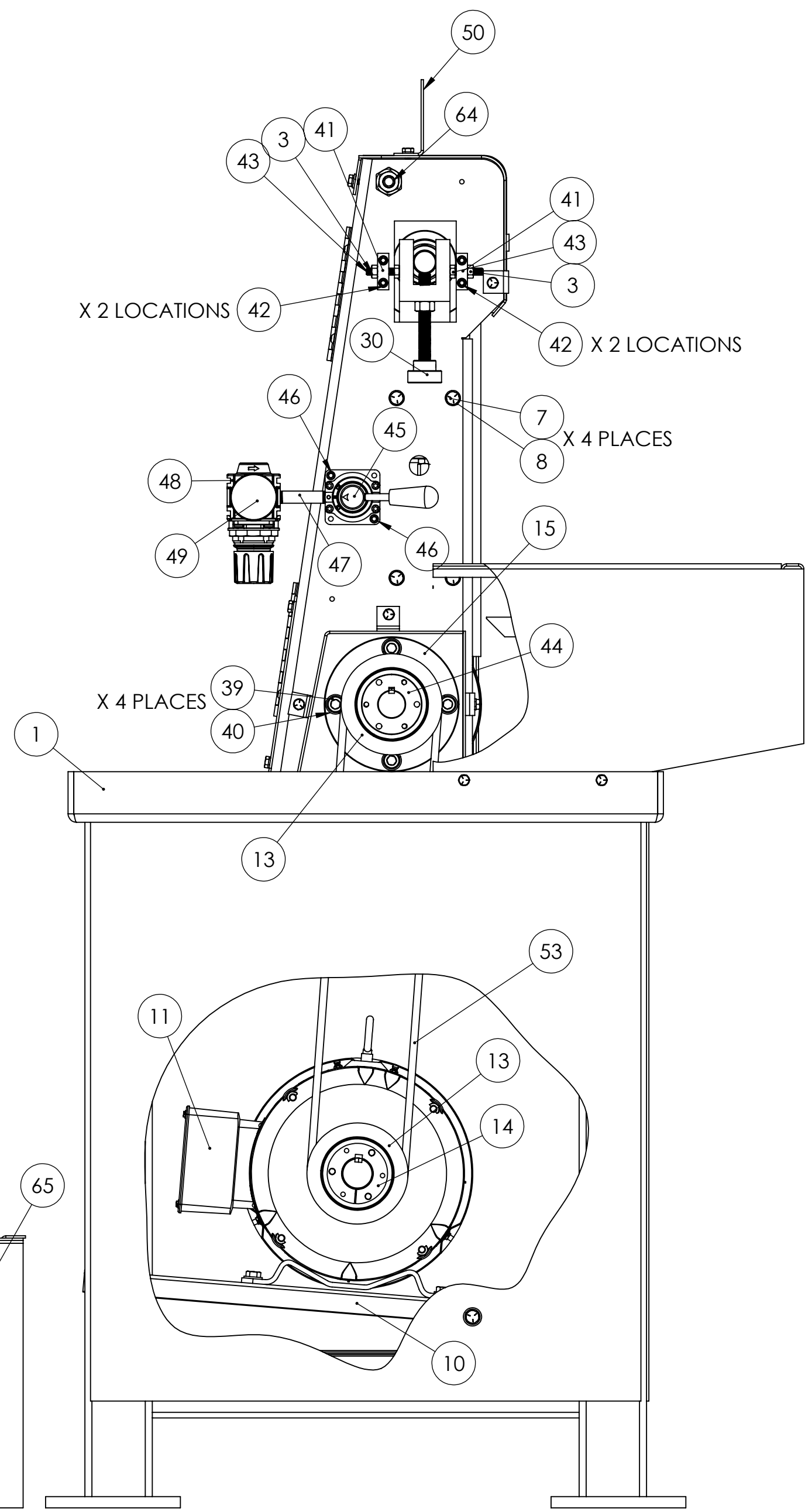
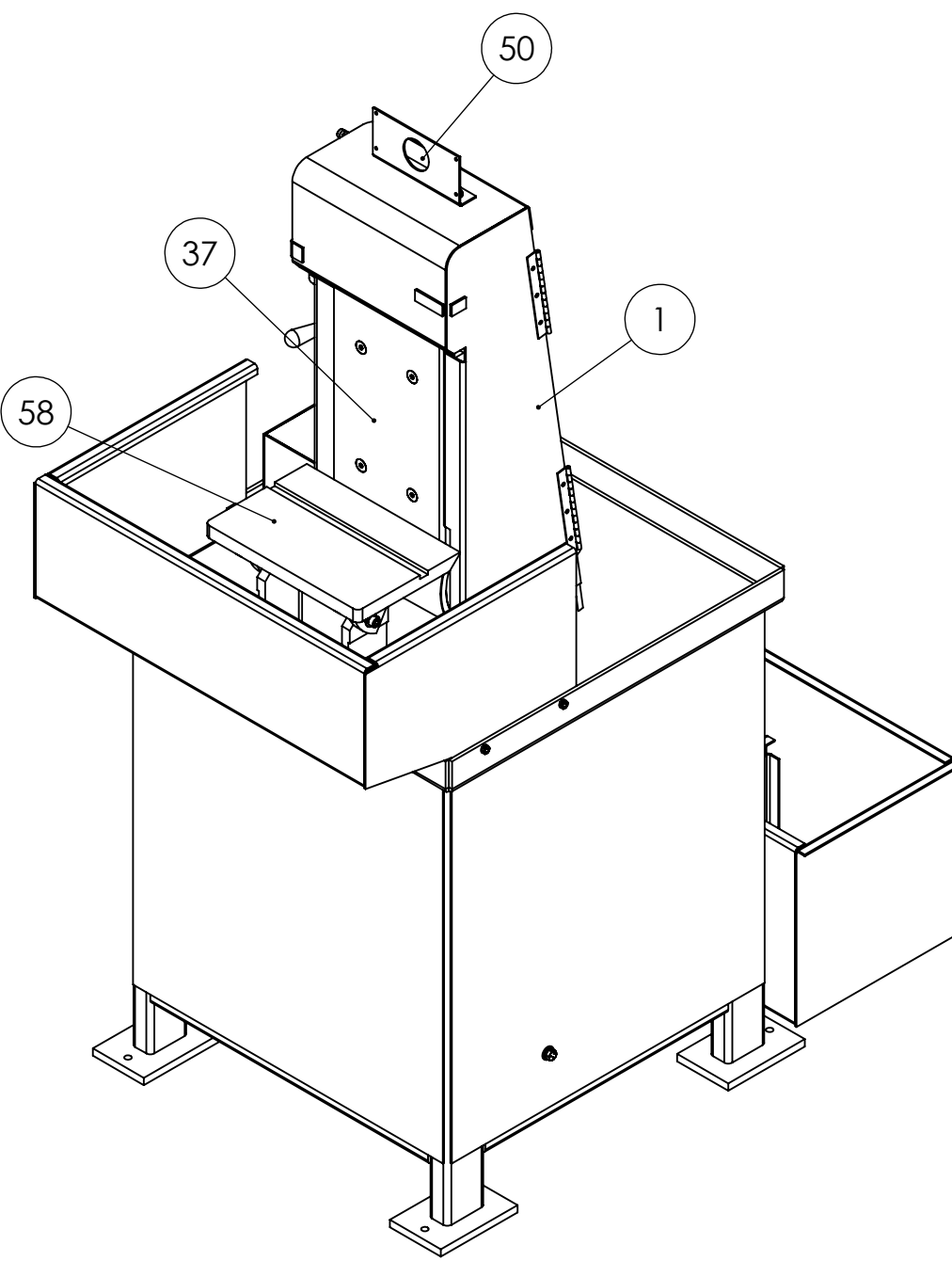
BACK VIEW



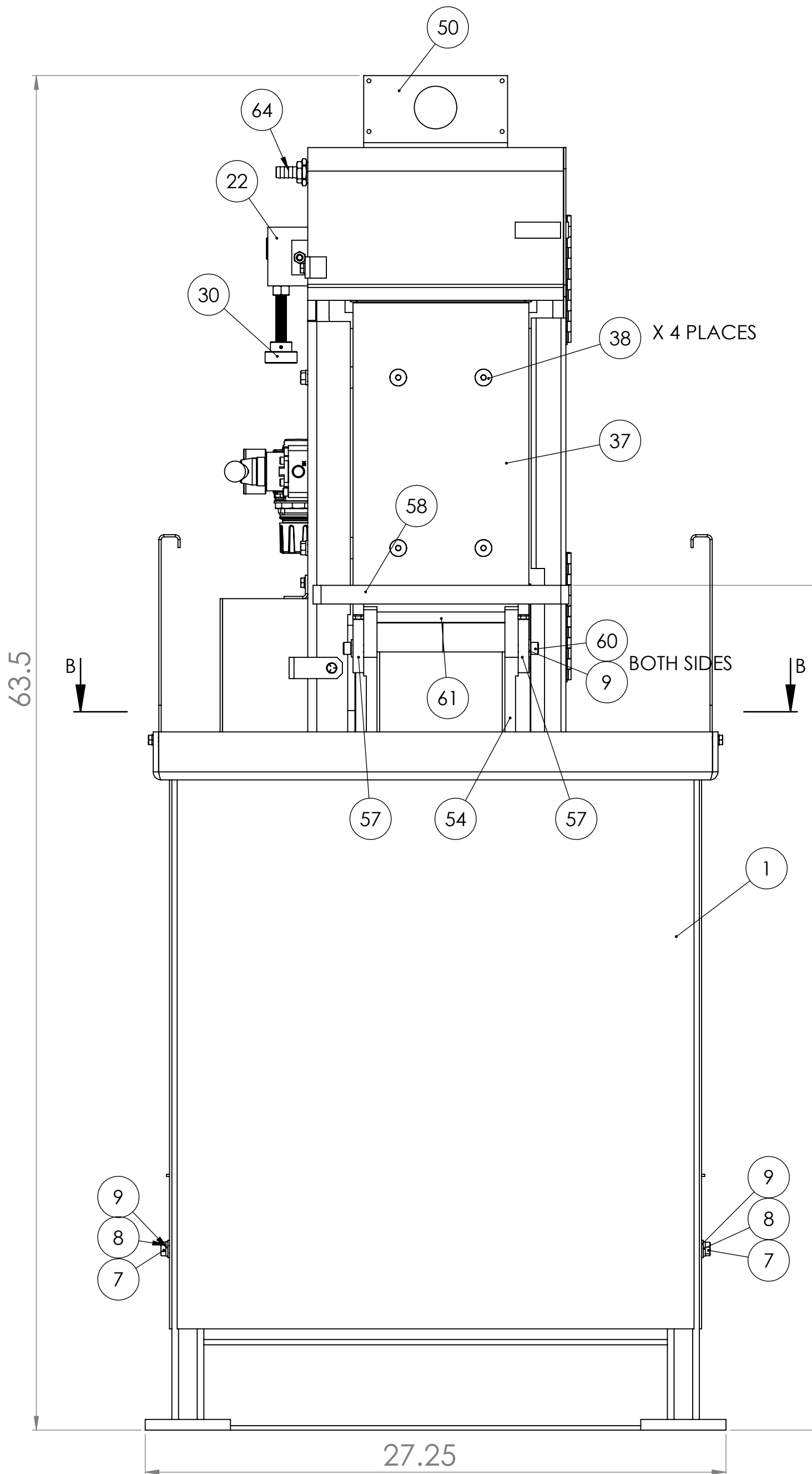
INTERIOR VIEW FROM FRONT SIDE



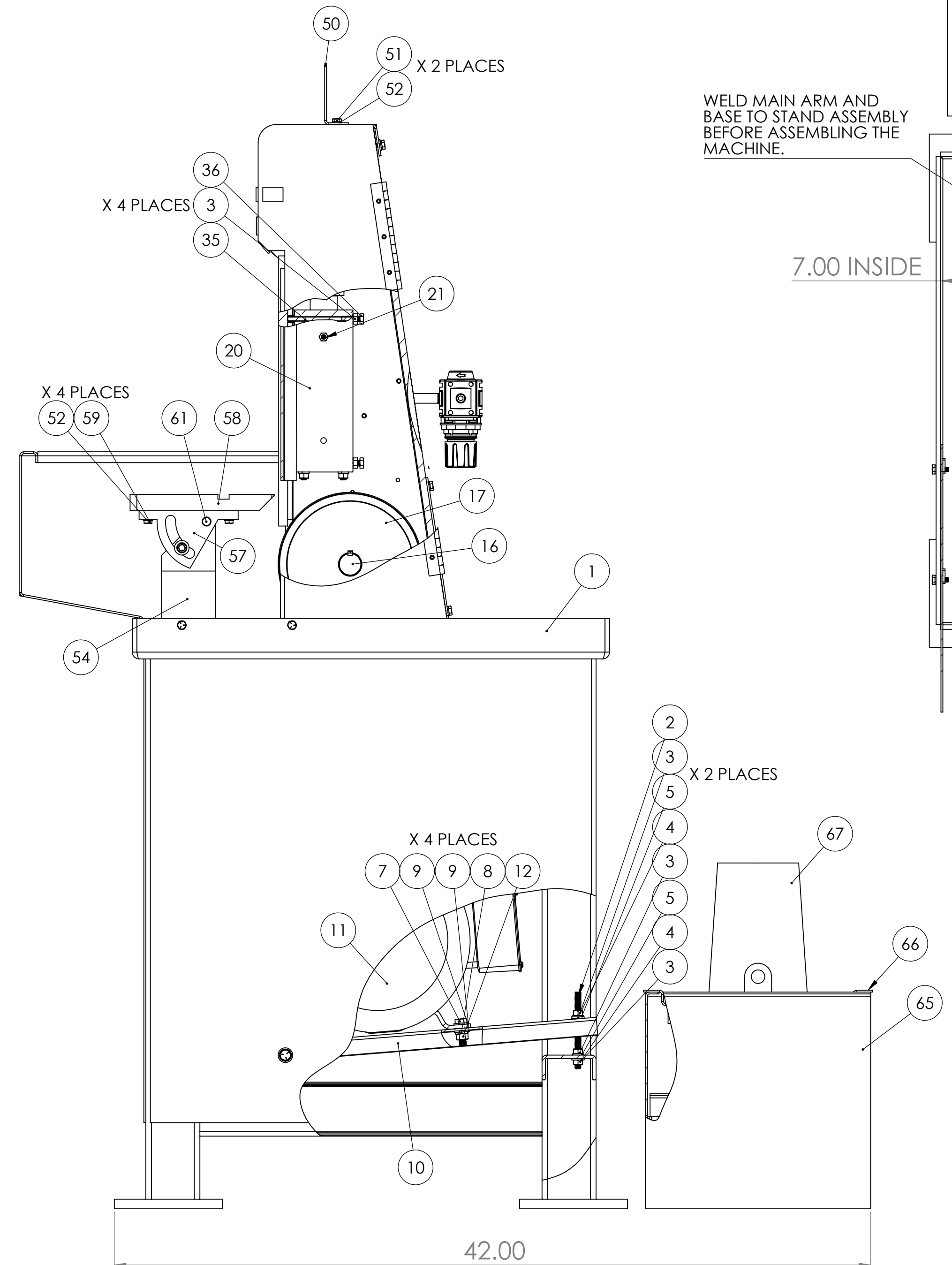
DETAIL A
SCALE 2 : 5



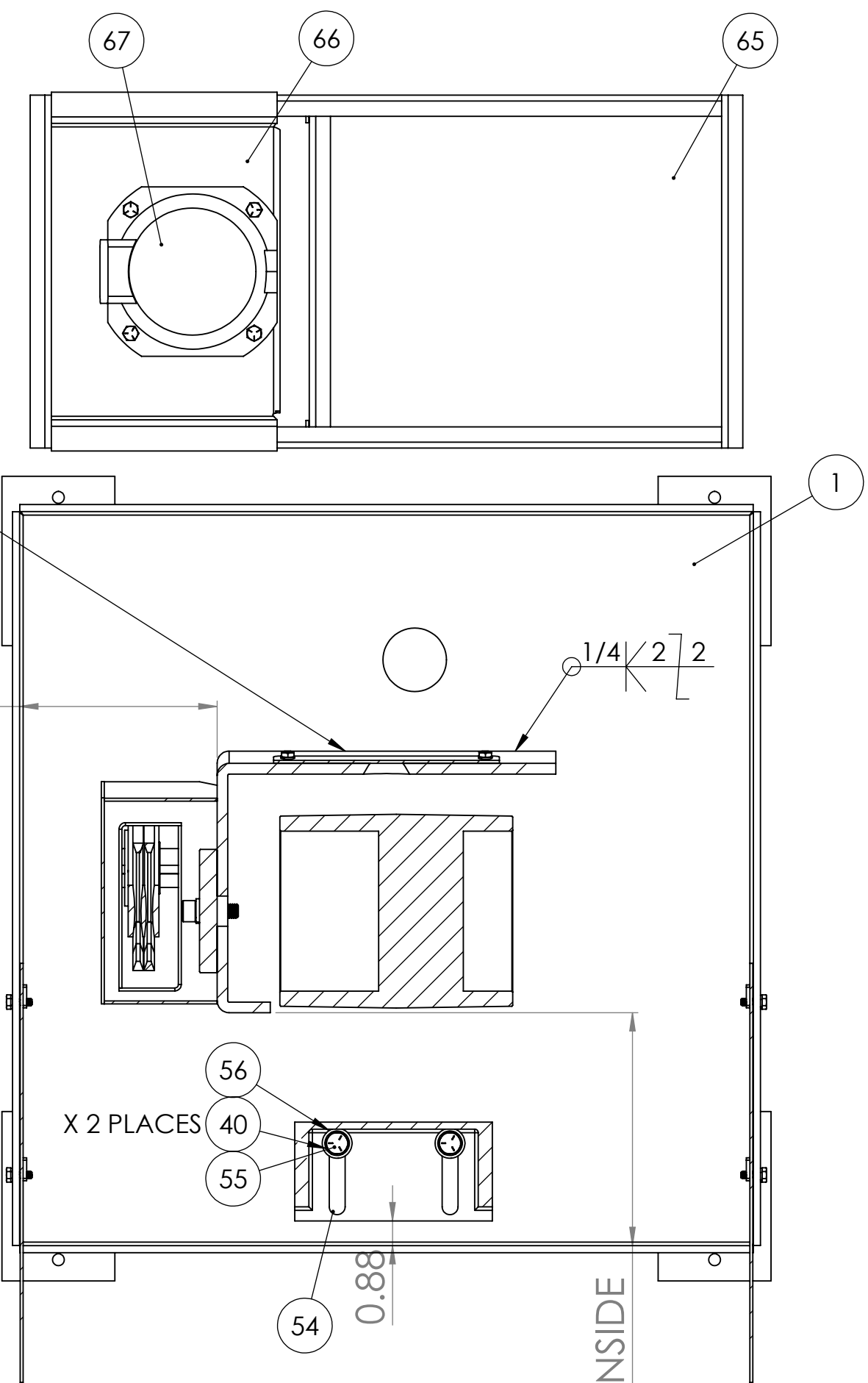
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



SECTION B-B
ATTACHMENT OF MAIN ARM/ BASE
TO STAND

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	716-010	STAND FOR S8W	1
2	RND-0.3125-18THRD X 4.25	4-1/4 INCHES OF 5/16-18 THREADED ROD	2
3	FHN5031	5/16-18 FHN GR5 ZINC	18
4	UFWZ031	5/16 USS F/W Z	6
5	SLWZ031	5/16 SPLIT L/W Z	12
6	700-043	S8 MOTOR MOUNT PIVOT SHAFT	1
7	HHC5037020	3/8-16 X 1-1/4 HHCS GR5 Z	10
8	SLWZ037	3/8 SPLIT L/W Z	10
9	UFWZ037	3/8 USS F/W Z	12
10	690-014	RAIL, MOTOR MOUNT FOR S 460, S6, S8 SANDERS	2
11	486-032	7-1/2 HP MOTOR FOR S8D	1
12	FHN5037	3/8-16 FHN GR5 Z	4
13	560-060	MOTOR AND SPINDLE PULLEY SHEAVE FOR S8 SANDERS	2
14	049-017	MOTOR PULLEY BUSHING FOR K20SSP-20,HP K20SW-20,HP, K20E, KM20-22W-20,HP	1
15	386-016	HOUSING, BEARING FOR S8 SANDERS	1
16	701-022	SPINDLE, DRIVE FOR S8 SANDERS	1
17	560-023	DRIVE PULLEY FOR S8 SANDERS	1
18	044-014	SER207-20 SER207-20 (ER20C) SPINDLE BEARING FOR S8 DRIVE PULLEY AND S10	2
19	SSSA031012	5/16-18 X 3/4 SOC SET CUP PT	1
20	291-025	PLATEN SUPPORT FRAME FOR S8D SANDERS	1
21	ZERK012000	1/8-27 X 11/16 STRT LUBE FITTING	1
22	960-007ASSY	S8 SERIES YOKE AND YOKE SHAFT ASSEMBLY	1
23	709-010A	3/8-24 X 1-1/4 STUD FOR S8D SANDERS	1
24	FJNZ038	3/8-24 F H JAM NUT	1
25	701-023	SPINDLE, IDLER FOR S8 SANDERS	1
26	ROLA031032	5/16 X 2 ROLL PIN	1
27	560-024	IDLER PULLEY WITH BEARINGS FOR S8 SANDERS	1
28	123-016	S6 IDLER PULLEY LOCK COLLAR	2
29	SSKA025004	1/4-20 X 1/4 SOC SET KNURL PT.	2
30	441-016ASSY	TRACKING KNOB ASSEMBLY FOR S8 AND S10 SANDERS	1
31	131-010	2500B-1, S0 2, S0X1, S0 AMERICAN MINI PAK CYLINDER FOR S8, S10 SANDERS	1
32	SSSA032036	5/16-24 X 2-1/4 SOC SET CUP PT	4
33	FJNZ032	5/16-24 F H JAM NUT Z	4
34	FHN5032	5/16-24 FHN GR5 Z	4
35	645-022	PUSH ROD FOR S8 SANDERS	4
36	HHC5031016	5/16-18 X 1 HHCS GR5 Z	8
37	563-004	PLATEN FOR S8 SANDERS	1
38	FSCA037024	3/8-16 X 1-1/2 FSHCS	4
39	SHCA050024	1/2-13 X 1-1/2 SHCS	4
40	SLWZ050	1/2 SPLIT L/W Z	6
41	053-009	TRACKING BLOCK- 5/16 THREADED HOLE	2
42	SHCA025016	1/4-20 X 1 SHCS	4
43	HHC5031020	5/16-18 X 1-1/4 HHCS GR 5 Z	2
44	049-005	SPINDLE PULLEY BUSHING FOR S8 SANDERS	1
45	912-014	HVN4200-8 PARKER 1/4 WAY VALVE, 3P ROTARY HAND VALVE	1
46	SHCA025024	1/4-20 X 1-1/2 SHCS	2
47	02530040BLN	02530040BLN 1/4 X 3 BLACK PIPE NIPPLE	1
48	641-021	P32RB92BNNP PARKER REGULATOR 1/4" 125PSI RELIEVING MODULAR REGULATOR	1
49	18-013-212	18-013-212 1.5- 1/8 CBM-Q-160	1
50	041-112	SWITCH BRACKET FOR E2PB BUTTON ENCLOSURE	1
51	HHC5025008	1/4-20 X 1/2 HHCS GR5 Z	6
52	SLWZ025	1/4 SPLIT L/W Z	10
53	051-011	3VXS60 V-BELT FOR S8 SERIES	2
54	711-009	SUPPORT, TABLE FOR S8 SANDERS	1
55	HHC5050032	1/2-13 X 2 HHCS GR5 Z	2
56	UFWZ050	1/2 USS F/W Z	2
57	831-017	TRUNNION, TABLE FOR S8 SANDERS	2
58	829-015	TABLE, WORK FOR S8 SANDERS	1
59	HHC5025016	1/4-20 X 1 HHCS GR5 Z	4
60	SHCA037016	3/8-16 X 1 SHCS	2
61	711-009ROD	8-1/4 OF 1/2 ROD RN-1/2 CF C1018	1
62	291-008A	VACUUM PLATE FOR S8 UPPER HEAD ASSEMBLY	1
63	389-020	SPLASH BAR FOR S8 WET SANDERS	1
64	BN44	HOSE BARB 1/2H X 1/2MNTP	1
65	716-011	COOLANT TANK ASSEMBLY FOR S460W, S6MW, S660MW, K12-14MS, K12-14W	1
66	041-114	1/4 TO 1/2 H.P. COOLANT PUMP MOUNTING BRACKET FOR WET SANDERS	1
67	577-002	1/4HP COOLANT PUMP AND MOTOR	1

PLEASE CONSULT S8 UPPER HEAD ASSEMBLY DRAWING FOR MORE DETAILED INFORMATION ON THE UPPER HEAD ASSEMBLY

PROPRIETARY/CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KALAMAZOO TOOL & MACHINE CO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KALAMAZOO TOOL & MACHINE CO. IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:	DRAWN	CHECKED	NAME	DATE
DIMENSIONS ARE IN INCHES				
TOLERANCES:				
FRACTIONAL 1/16				
ANGULAR 30 MIN				
POSITIONAL 0.004				
THREE PLACE DECIMAL 0.001				
INTERPRET GEOMETRIC TOLERANCES PER ASME Y14.5				
NEET ADD	USED ON	FRONT		
APPLICATION		DO NOT SCALE DRAWING		

TITLE

S8 VERTICAL WET SANDER

SIZE DWG. NO.

E S8W ASSEMBLY

REV

SCALE: 1:1.5 WEIGHT: SHEET 1 OF 1

