



S4SWB Series Wet Belt Sander Instruction Manual

Covers S4SWB, S4SWBD 4" x 36" Wet Belt Sanders

www.kalamazooind.com

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Kalamazoo, MI 49048
Phone 269-382-2050

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 tension is pre-set with tension spring (9) No belt tension adjustment is needed.
 - Belt Changing – Disconnect power. Open hinged guard (1). Squeeze the sanding belt to compress the spring and lower the tension shaft. While still squeezing the belt, flip cam (15) parallel to the tension shaft. Remove and replace the belt.
 - Belt tracking - With power disconnected, rotate the belt by hand to center it. Loosen hex nut (11) and adjust tracking bolt (10) in or out to track the belt. Re-tighten hex nut (9) to lock the setting. Close hinged guard (1) and reconnect power.
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- 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.
 - 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 bearings fail.

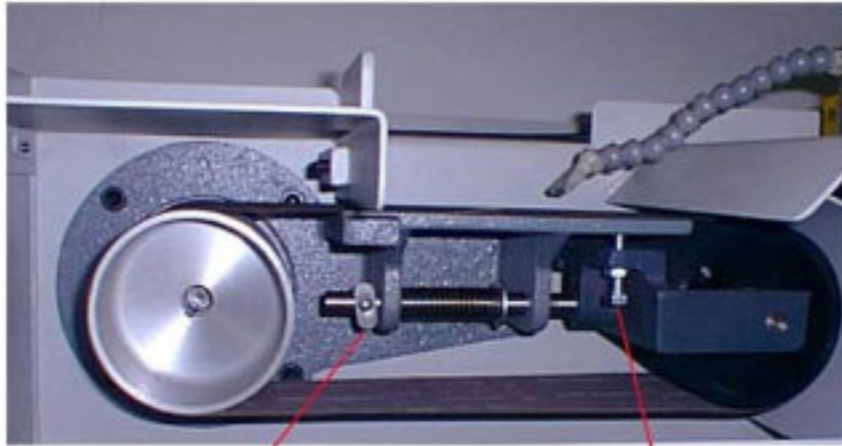
WARRANTY: All products are guaranteed for a period of one year to the original purchaser, against defects in material workmanship under normal use. Exclusions may apply.

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:

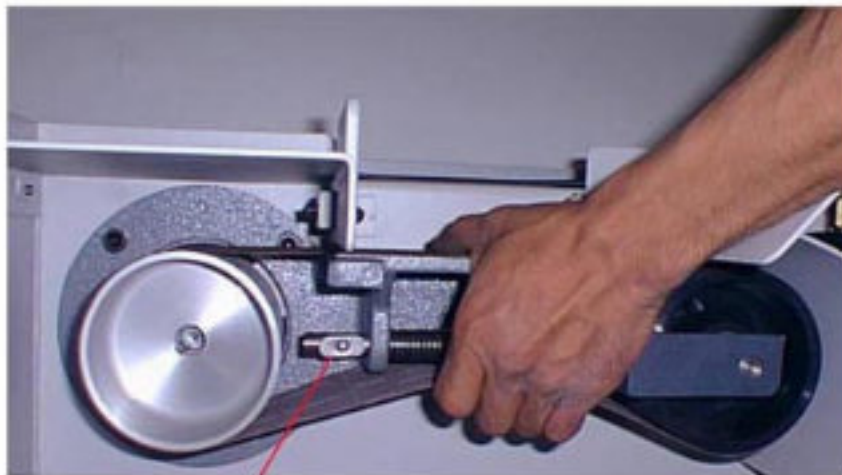
- 1) Read the operating instructions before running machine.
- 2) Always wear safety glasses or a full-face shield for protection.
- 3) Keep hands clear of the sanding area.
- 4) Never wear gloves or loose-fitting clothing when operating this machine.
- 5) Always keep hair tied back or covered.
- 6) 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) Keep electrical components dry. Never operate the machine with wet hands or near standing water.
- 11) Use only rust-inhibiting coolants and ensure proper drainage to prevent overflow or contamination.

**Specs: 4" x 36" belt, 1/2 HP , 110 volt, 1 phase
Internal tank, submersible pump.
Belt changing on # S4SWB**



A
Squeeze belt manually,
move cam to Position C.

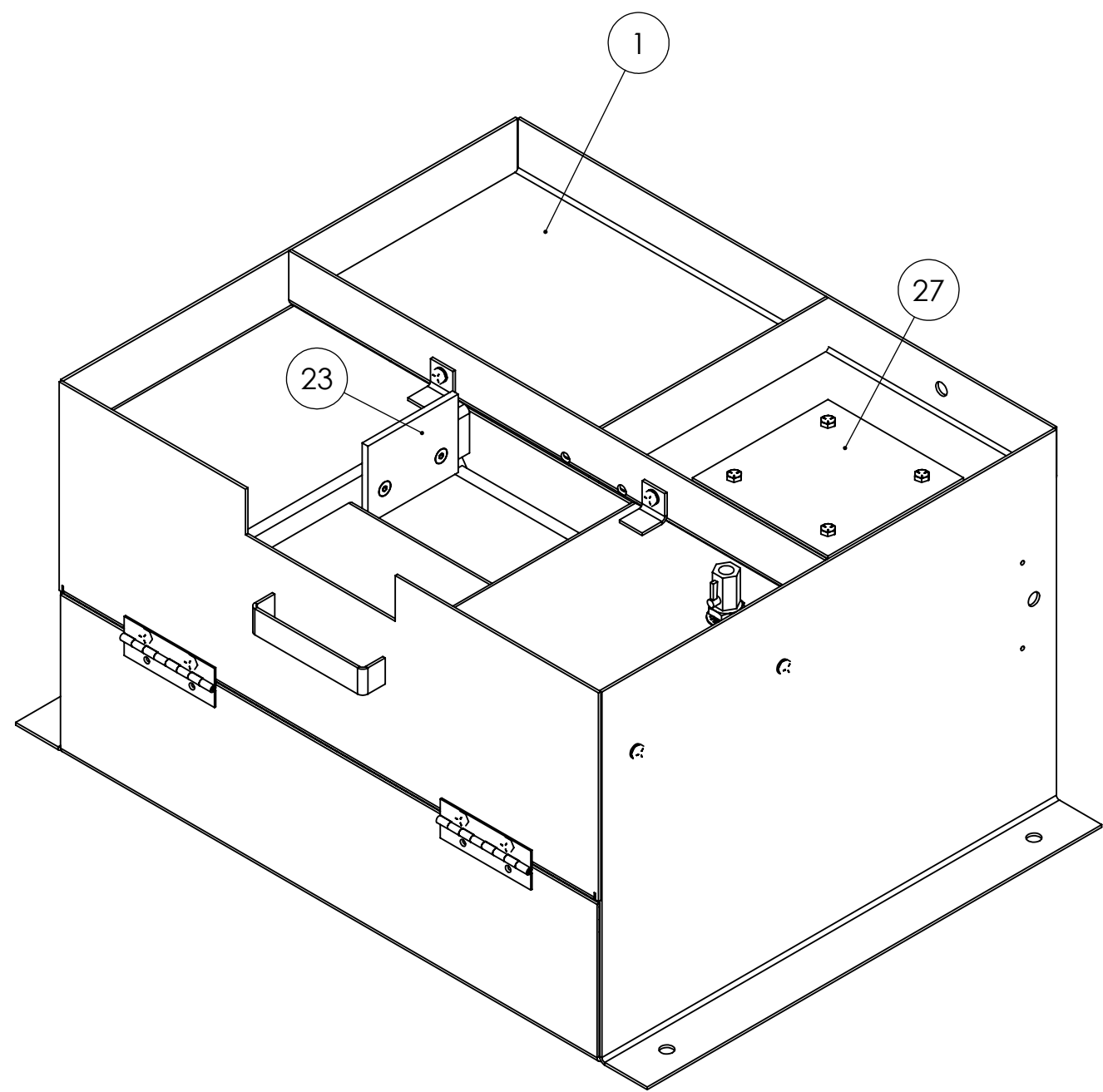
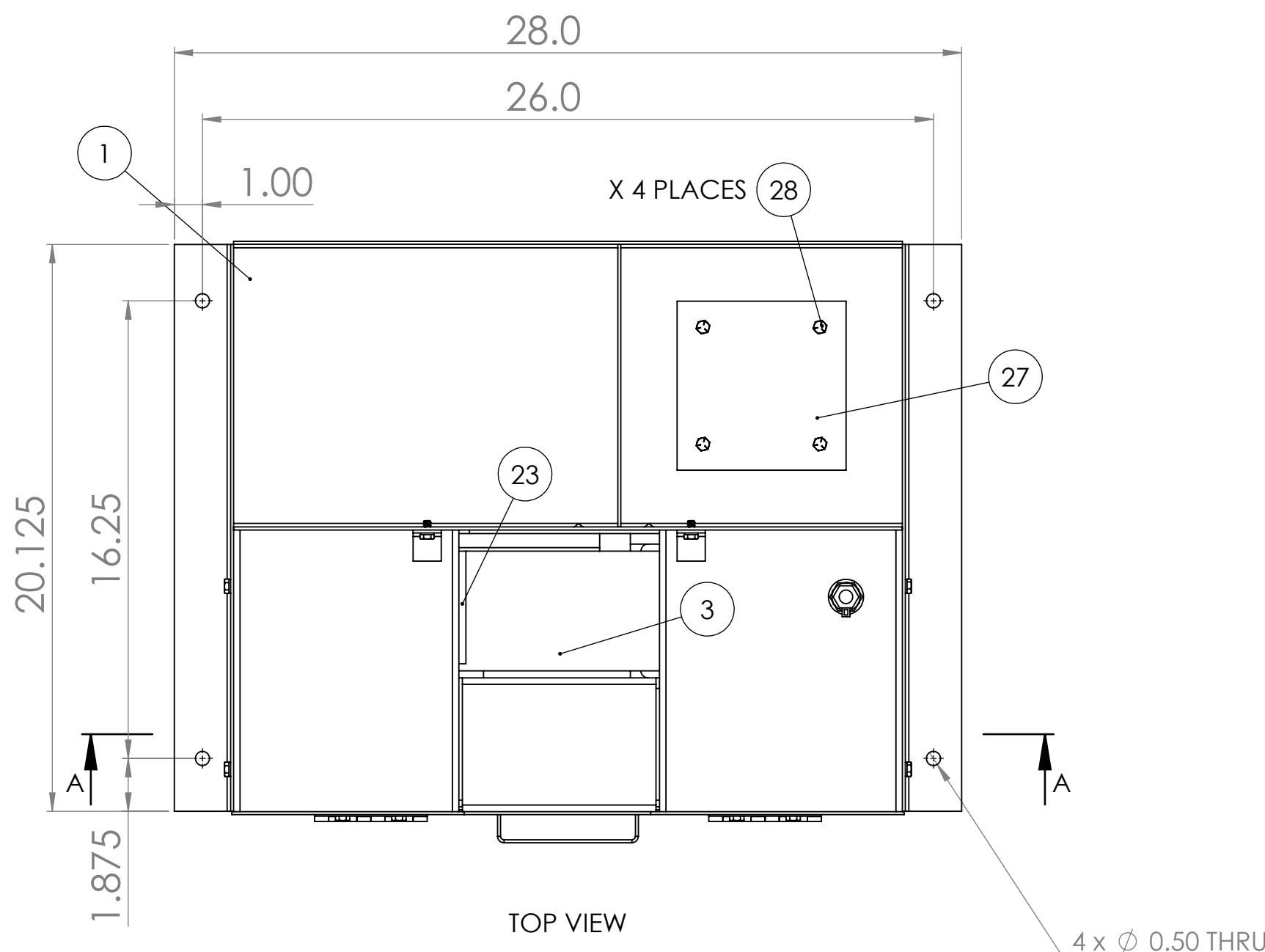
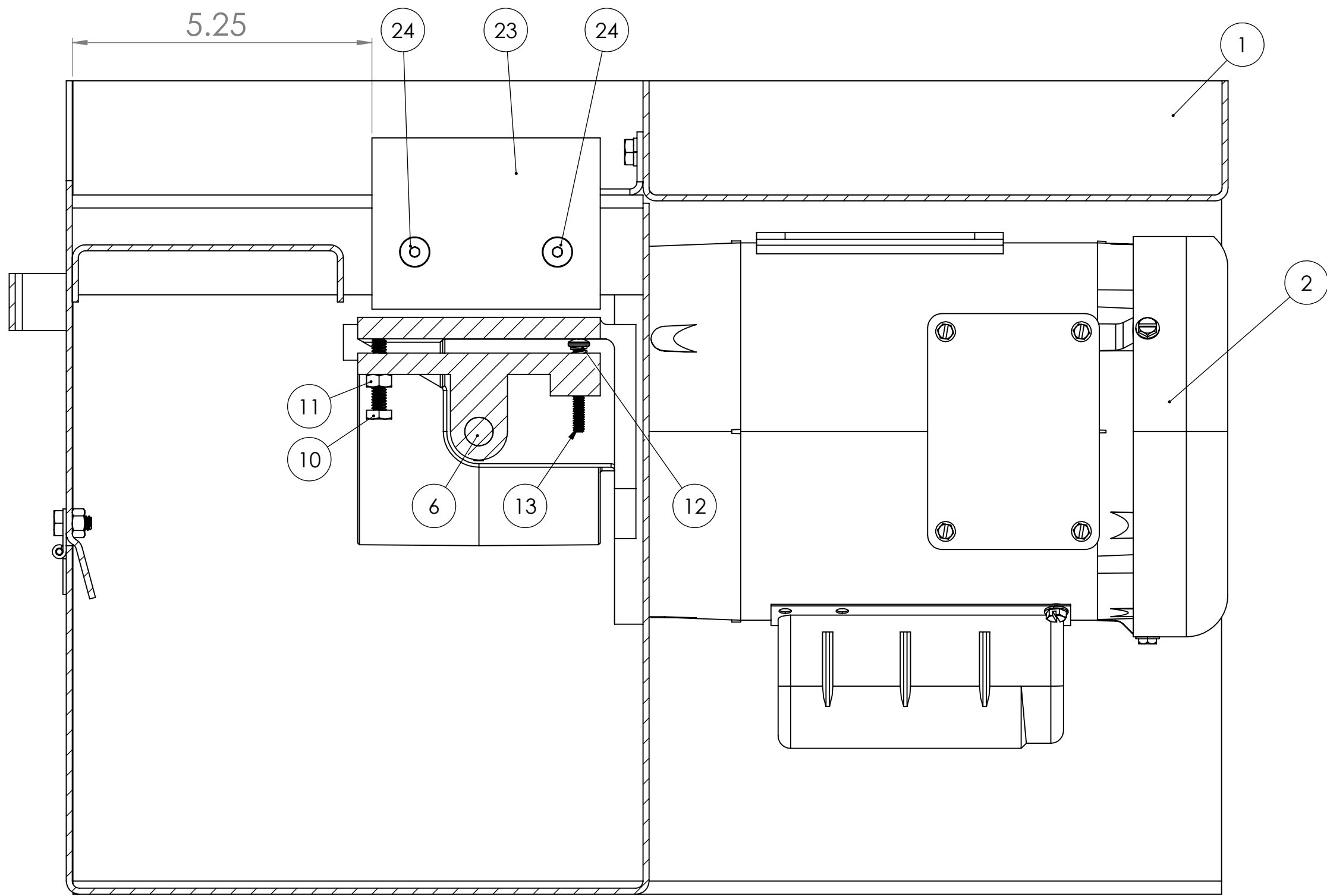
B
Tracking



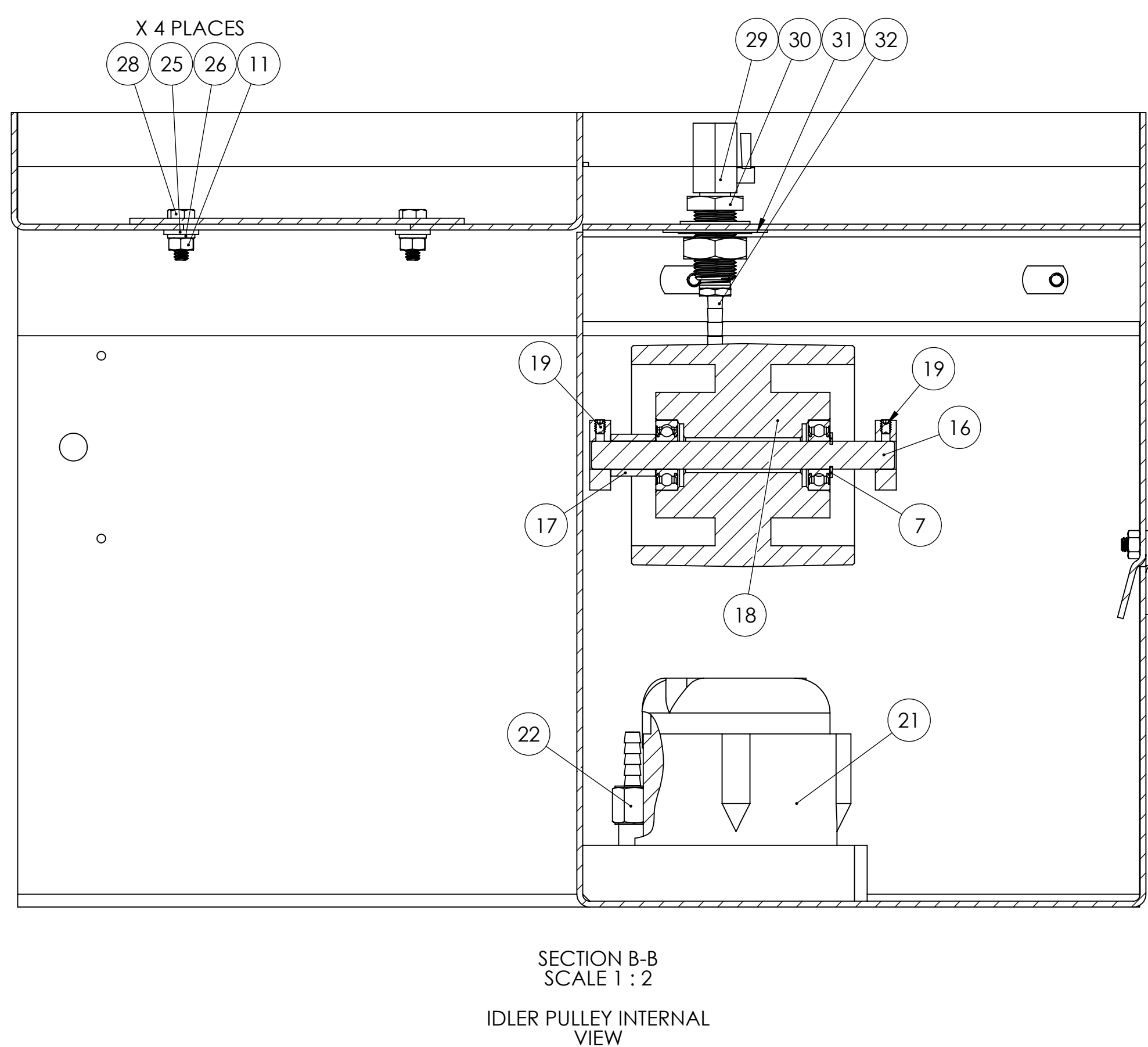
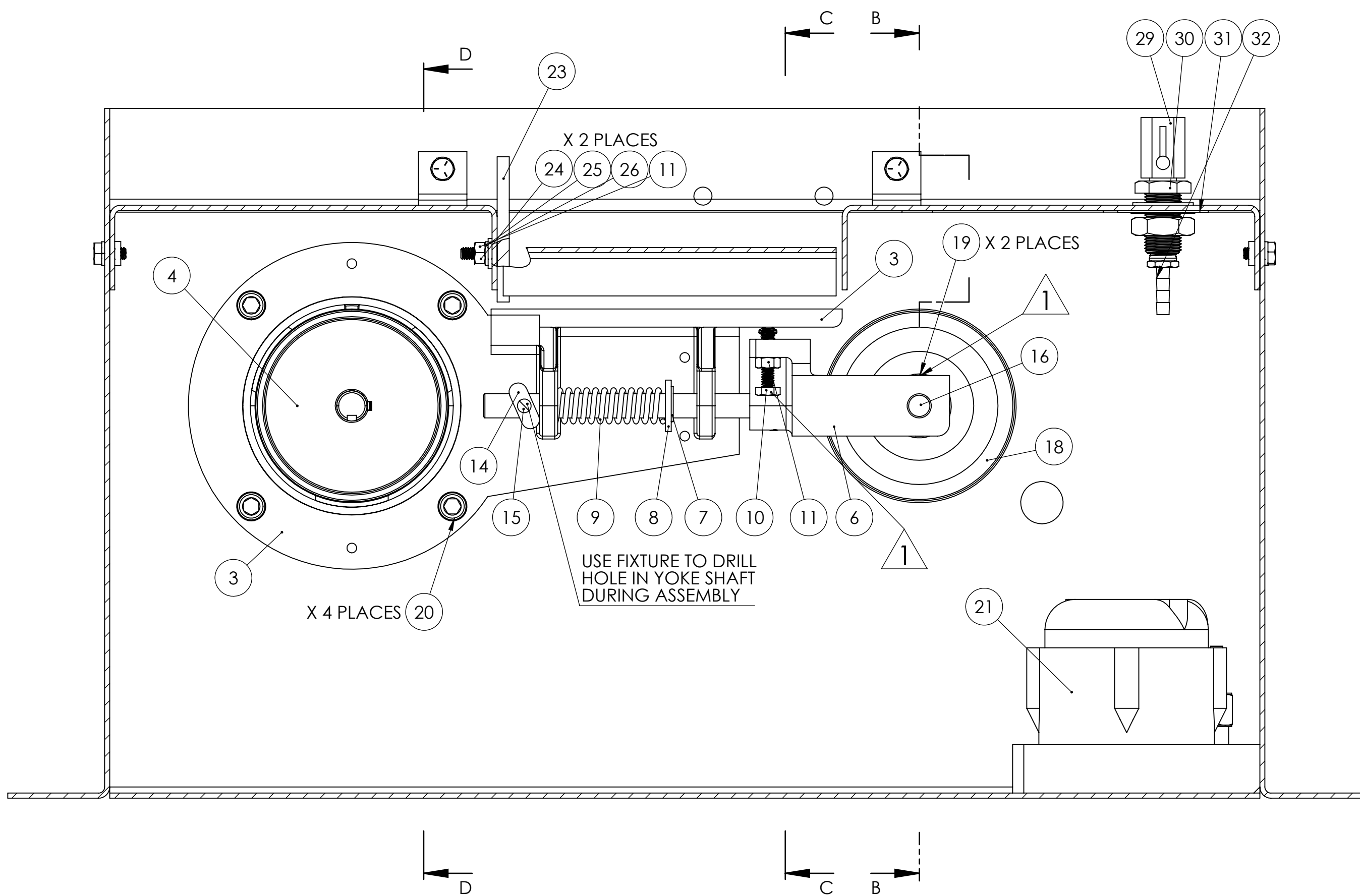
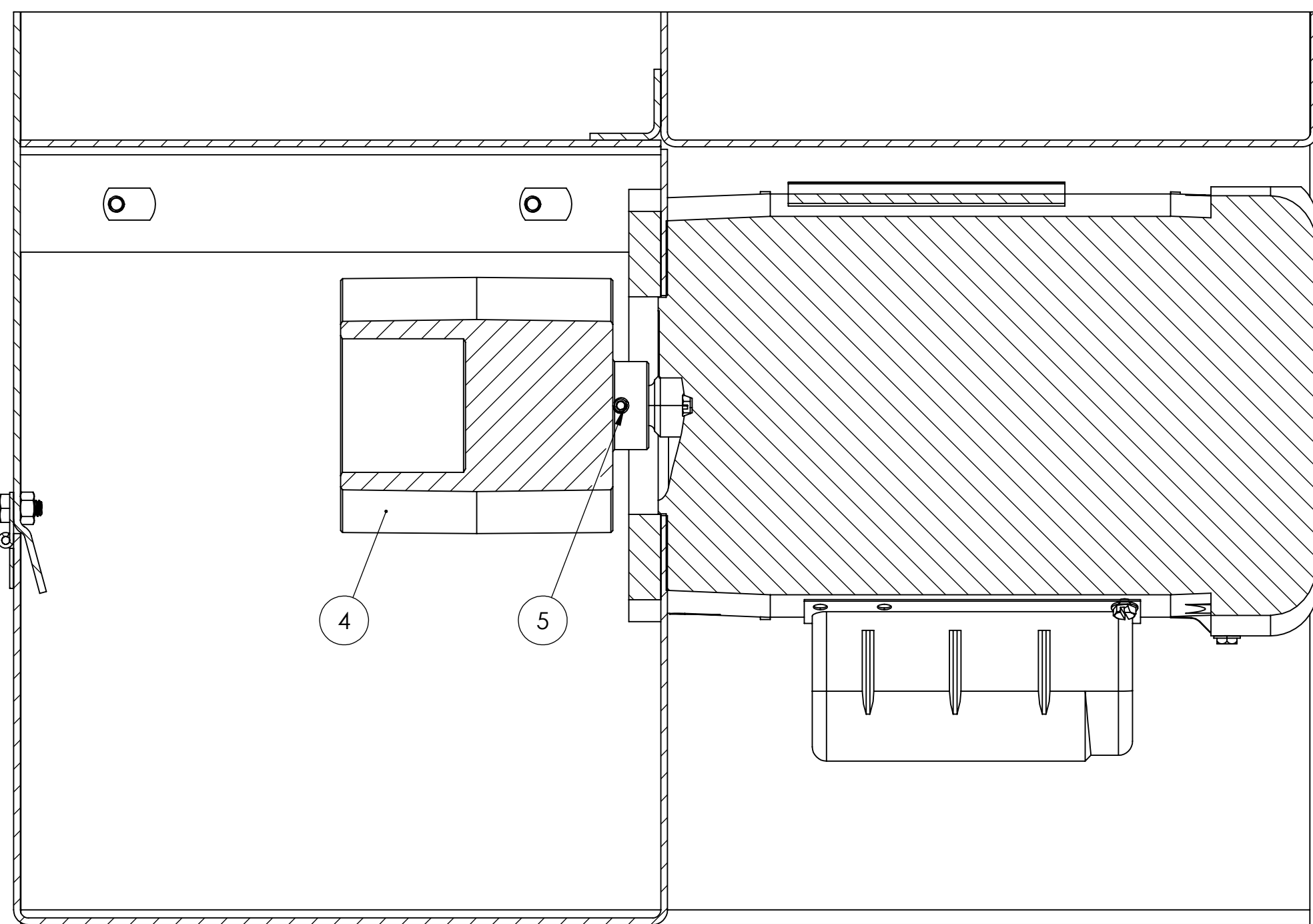
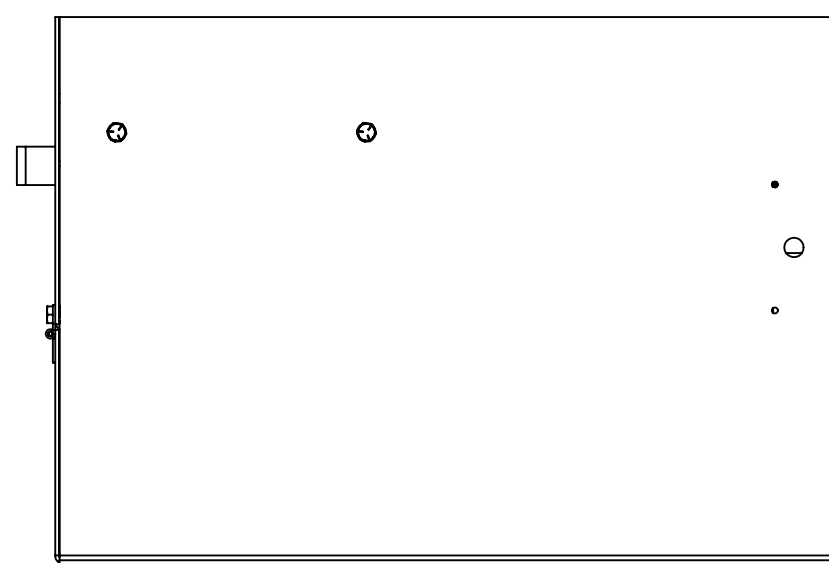
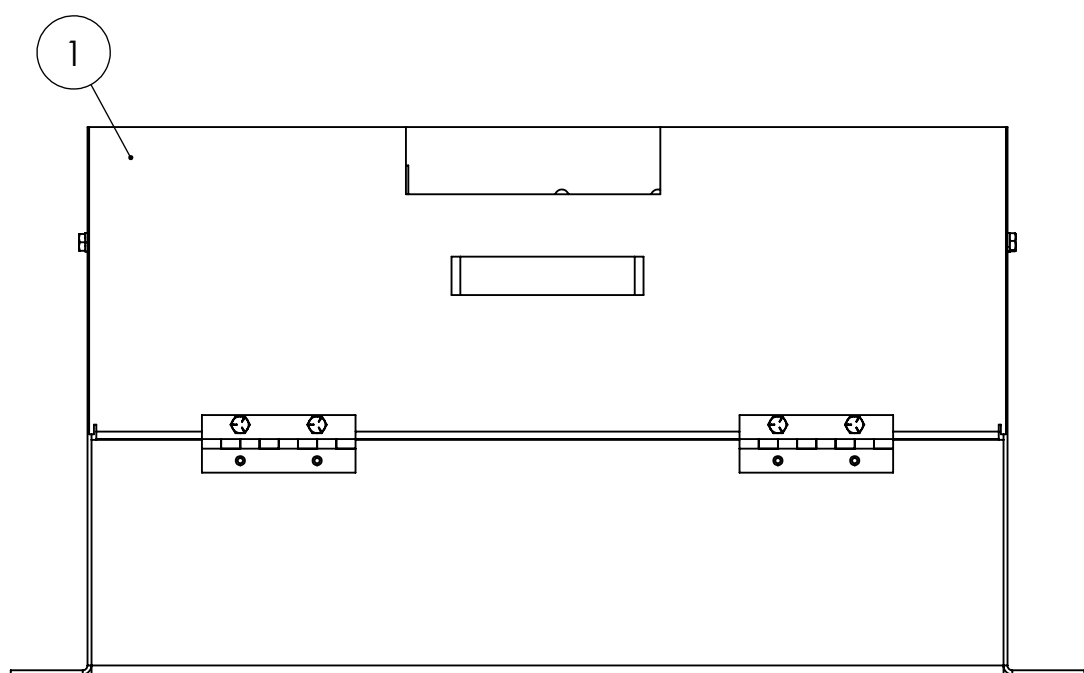
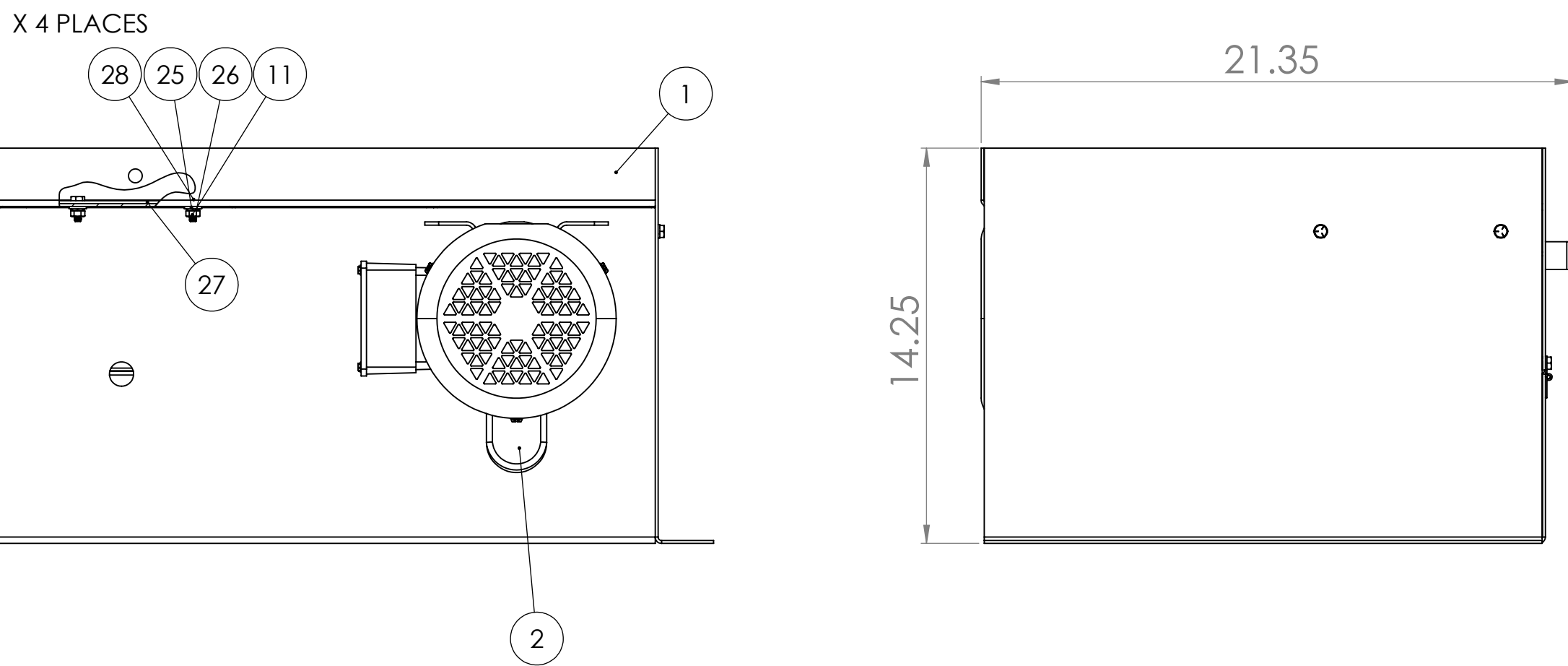
C
Squeeze belt, Position cam as
shown. Change belt, release
cam manually to position A.

**Use rust inhibiting coolant! Keep coolant tank clean.
To clean out coolant, direct coolant line into a
bucket, pump out tank. Dispose of properly.**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B4, C4	1	TAPPED HOLE IN YOKE CHANGED FROM 5/16-18 TO 1/4-20. FASTENERS UPDATED. 10-24 TAPPED HOLE ADDED	3/21/2025	



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	050-048	MODEL S4SWB BENCHTOP BELT SANDER	1
2	486-011	1/2HP MOTOR FOR BELT AND DISC	1
3	291-002	CAST IRON FRAME WITH PLATEN FOR S4, S4S, DS10-4	1
4	560-005	PULLEY, DRIVE (ALUMINUM) FOR S4, S4S, S460D	1
5	SSKA025006	1/4-20 X 3/8 SOC SET KNURL PT.	1
6	960-002YA-REV1	S4, S4S, S4SWB YOKE AND TENSION SHAFT ASSEMBLY/ REVISION 1	1
7	EERR0.5	EERR1/2 1/2" E RETAINING RING	2
8	UFWZ050	1/2 USS F/W Z	1
9	697-010	SPRING, TENSION FOR S4 SANDERS	1
10	HHC5025020	1/4-20 X 1-1/4 HHCS GR5 Z	1
11	FHN5025	1/4-20 FHN GR5 Z	7
12	697-011	TRACKING SPRING FOR S4	1
13	CRMZ010024	10-24 X 1-1/2 COMBO ROUND M/S	1
14	455-011	CAM FOR S4 TENSION SHAFT	1
15	RUDZ007008	#7 X 1/2 RD U-DRIVE SCREW Z	1
16	701-008	SPINDLE, IDLER FOR S4, S460 SANDERS	1
17	123-003	COLLAR FOR S4- SPACER FOR K20 BELT GUARD	1
18	560-006	IDLER PULLEY S4 W BEARINGS FOR S4S AND S460	1
19	SSKA010004	10-24 X 1/4 SOC SET KNURL PT	2
20	SHCA037012	3/8-16 X 3/4 SHCS	4
21	486-050	SUBMERSIBLE PUMP FOR KVF3 S4SWB1P939-0	1
22	BF22	BF22 HOSE BARB 1/4H X 1/4 FP	1
23	293-033	WORK STOP FENCE FOR S4SWB SERIES SANDERS	1
24	FSCA025016	1/4-20 X 1 FSHCS	2
25	UFWZ025	1/4 USS F/W Z	6
26	SLWZ025	1/4 SPLIT L/W Z	6
27	050-048PLATE	TOP DECK ACCESS PLATE FOR S4SWB BASE	1
28	HHC5025012	1/4-20 X 3/4 HHCS GR5 Z	4
29	S35BZ0	S35BZ0 MINIATURE BALL VALVE 1/4 M X F	1
30	W05465	W05465 AIR BRAKE BULKHEAD COUPLING 1/4	1
31	TB3703	TB 3703 1 X 1/2 REDUCING WASHER	1
32	BN22	BN22 DX HOSE BARB 1/4H X 1/4 MNPT	1



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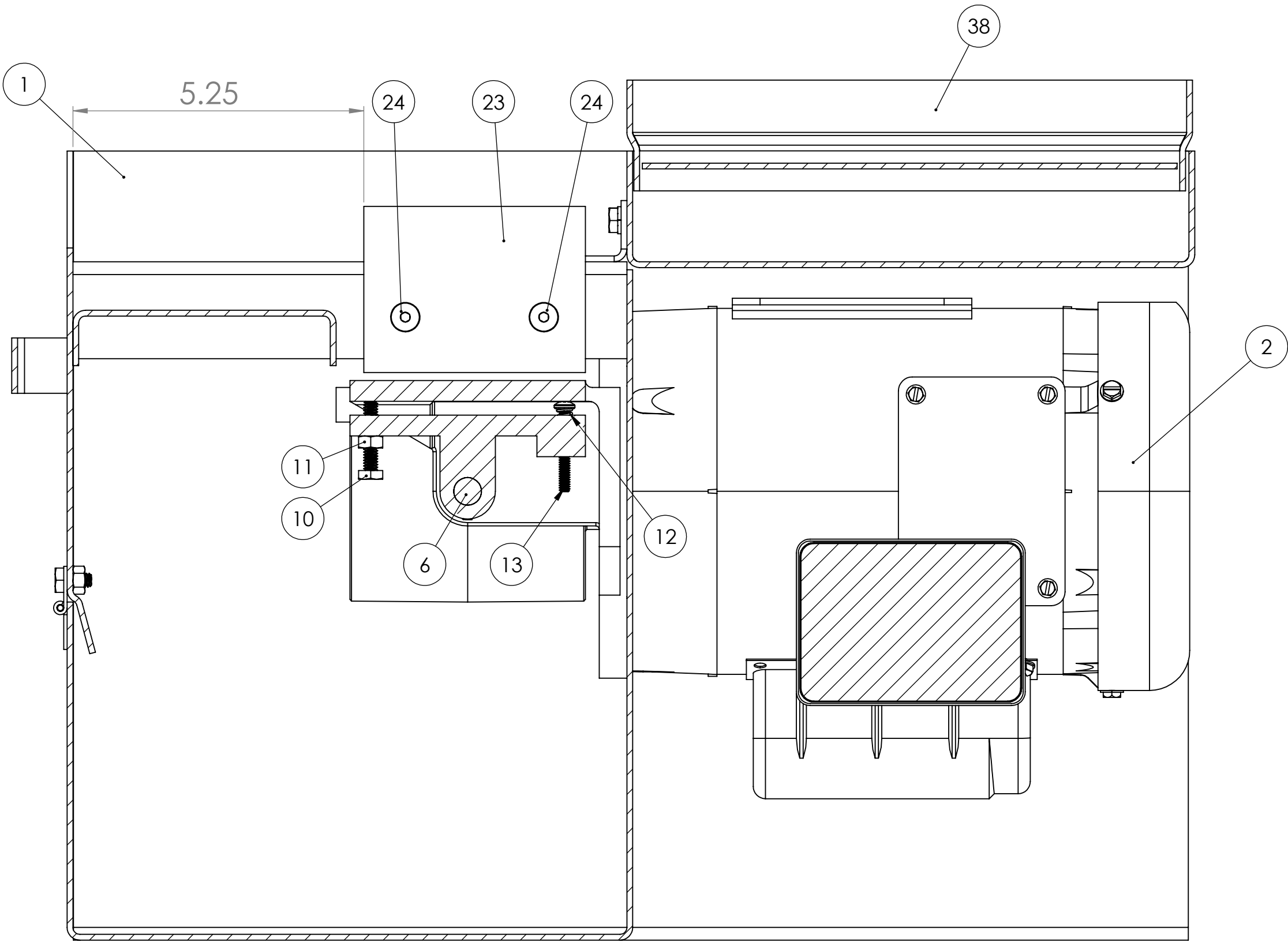
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APPLICATION	DO NOT SCALE DRAWING		

MODEL S4SWB BENCHTOP BELT SANDER

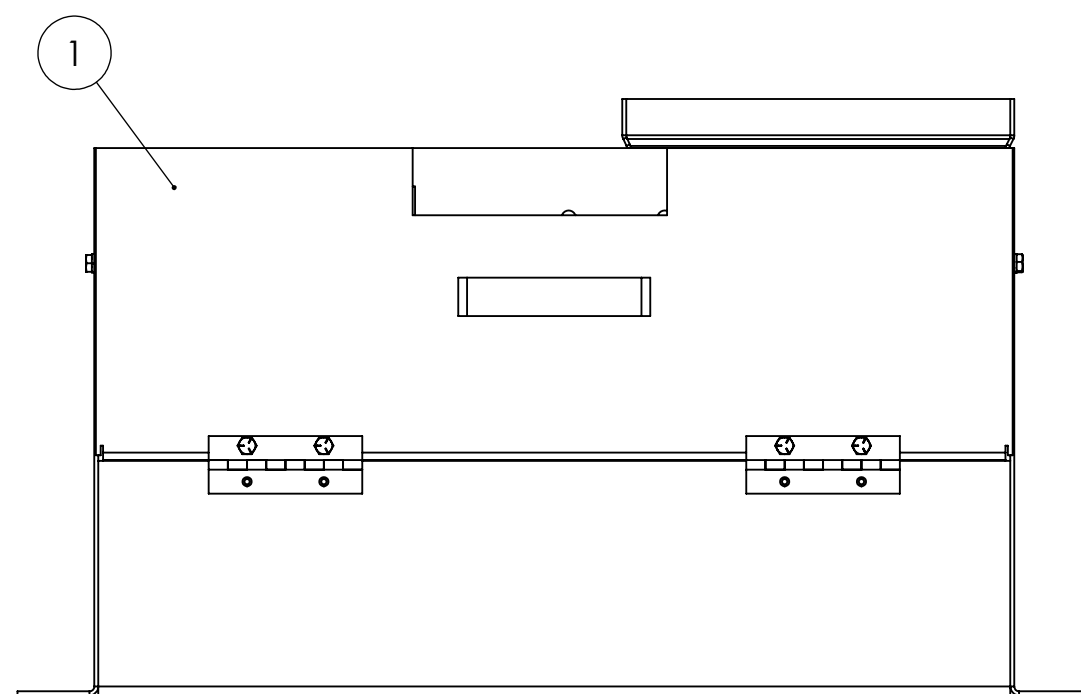
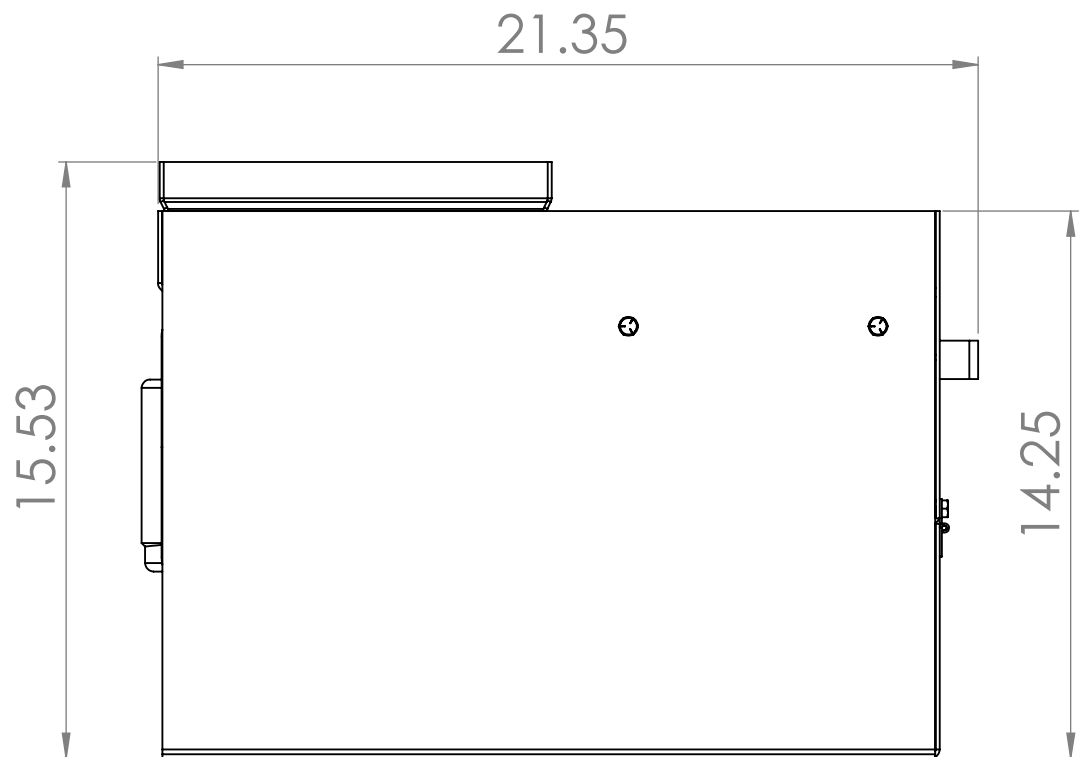
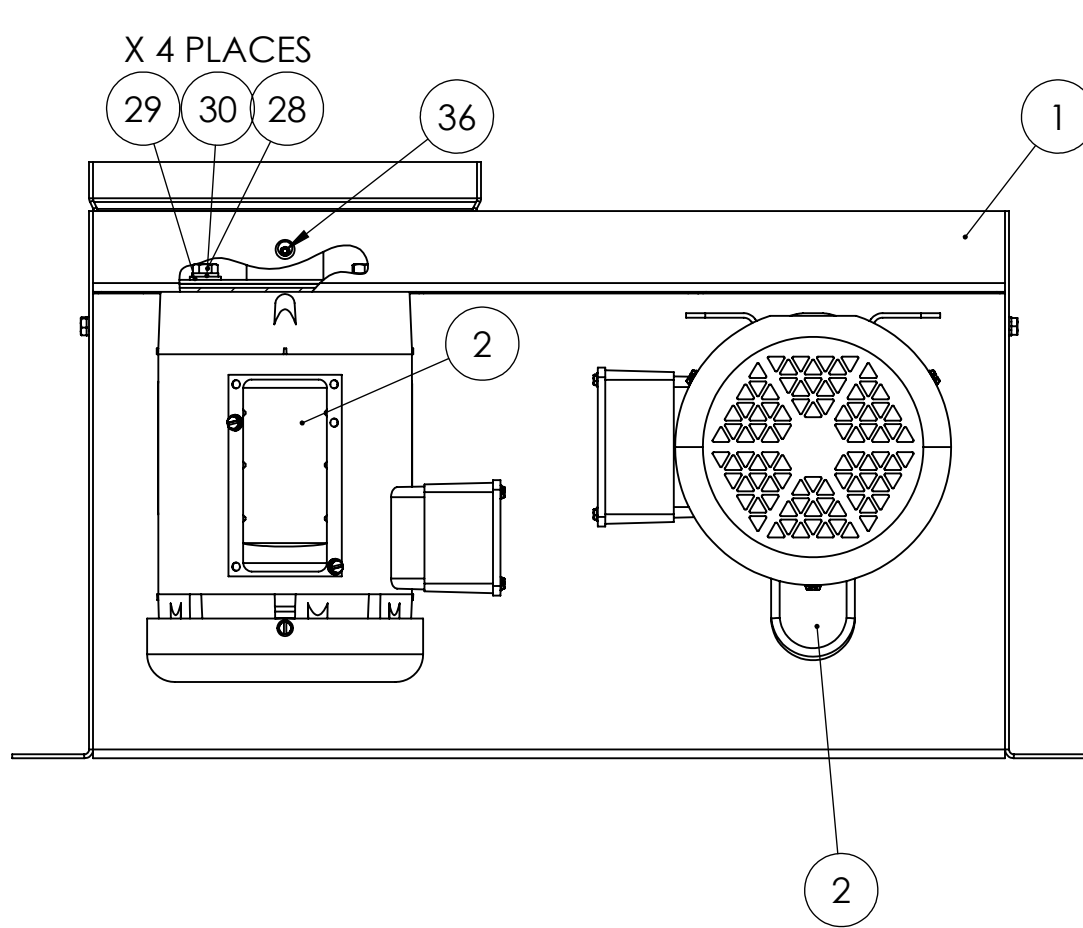
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SCALE: 1:5 WEIGHT: SHEET 1 OF 1

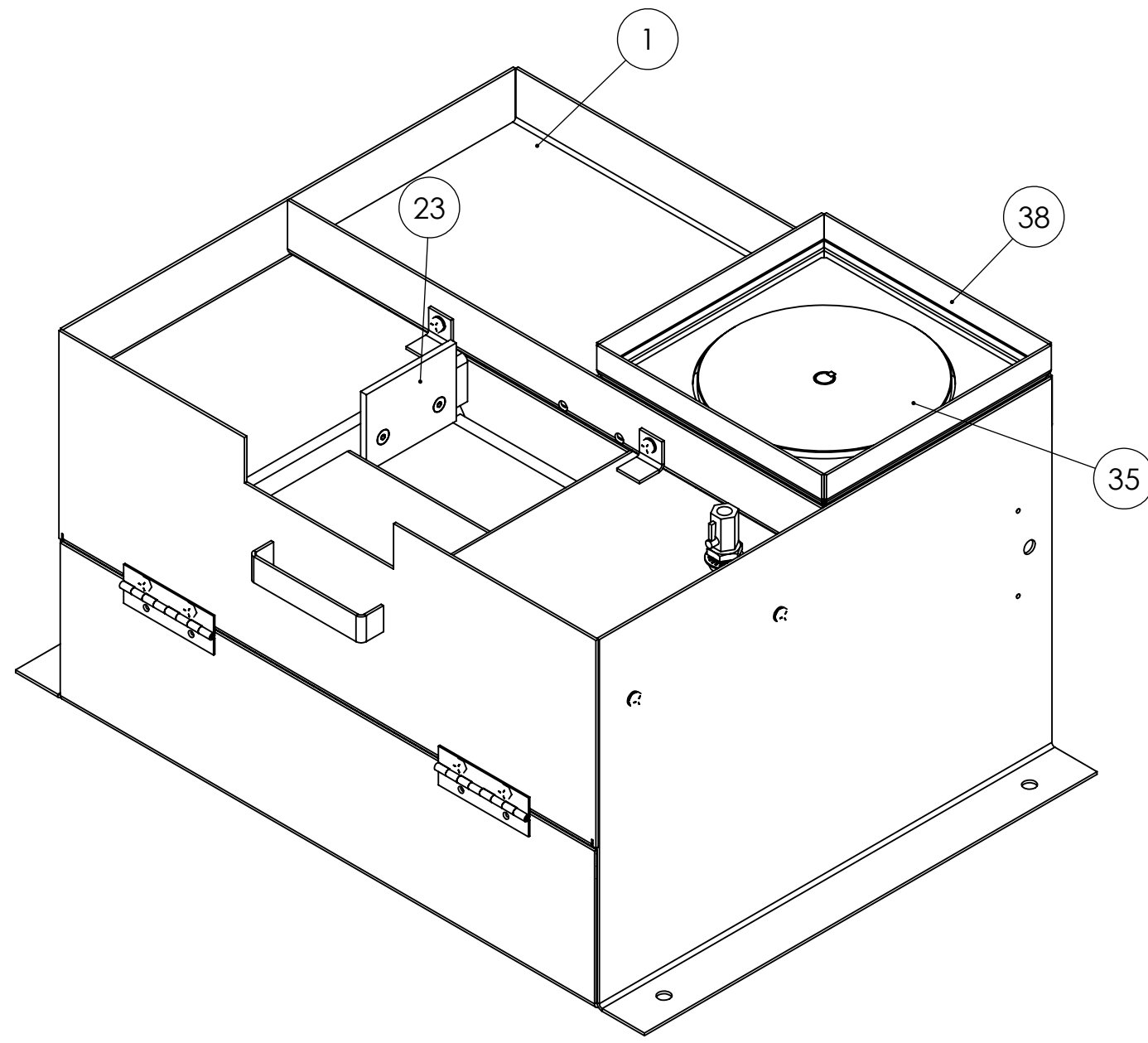
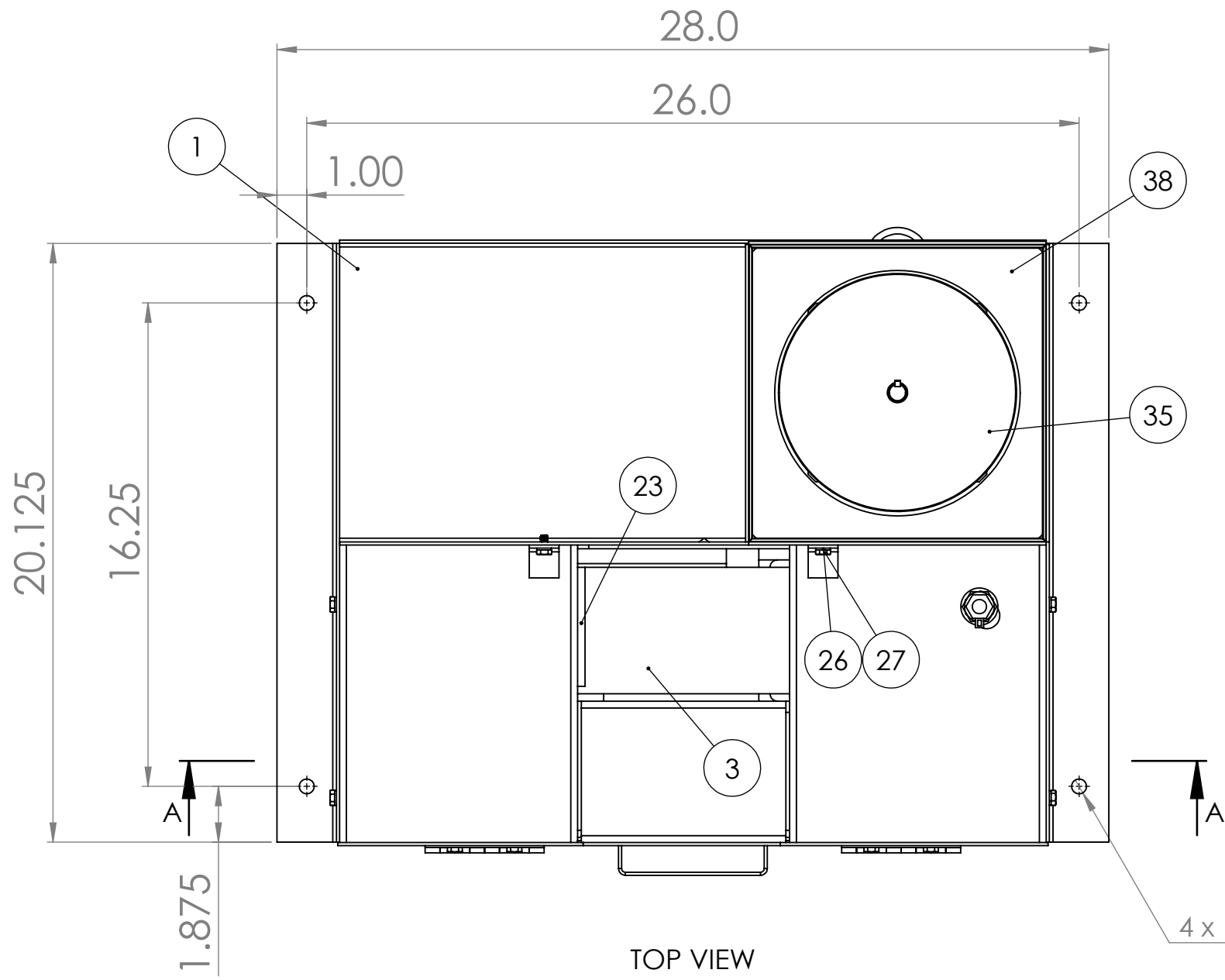
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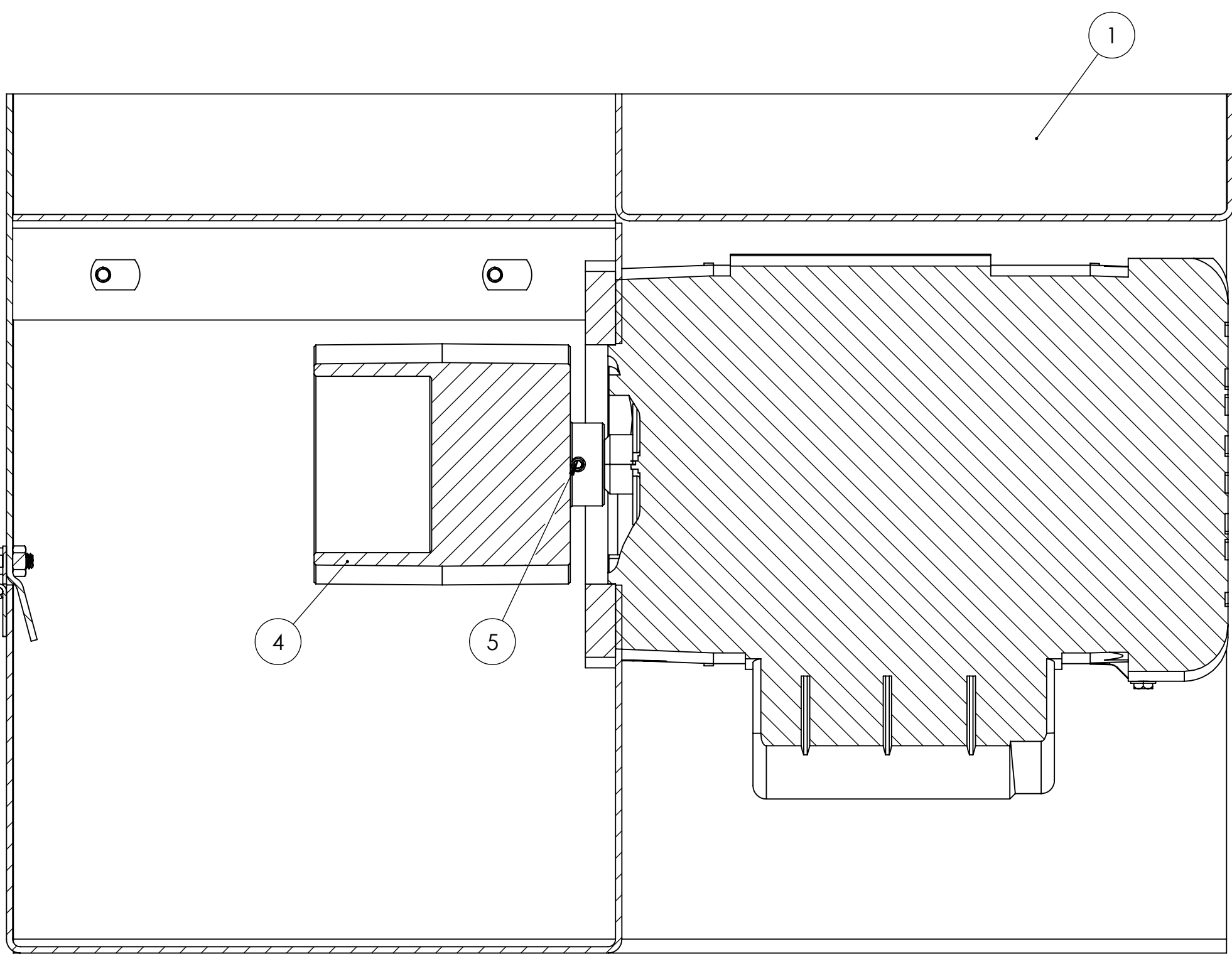
SECTION C-C
SCALE 1:2



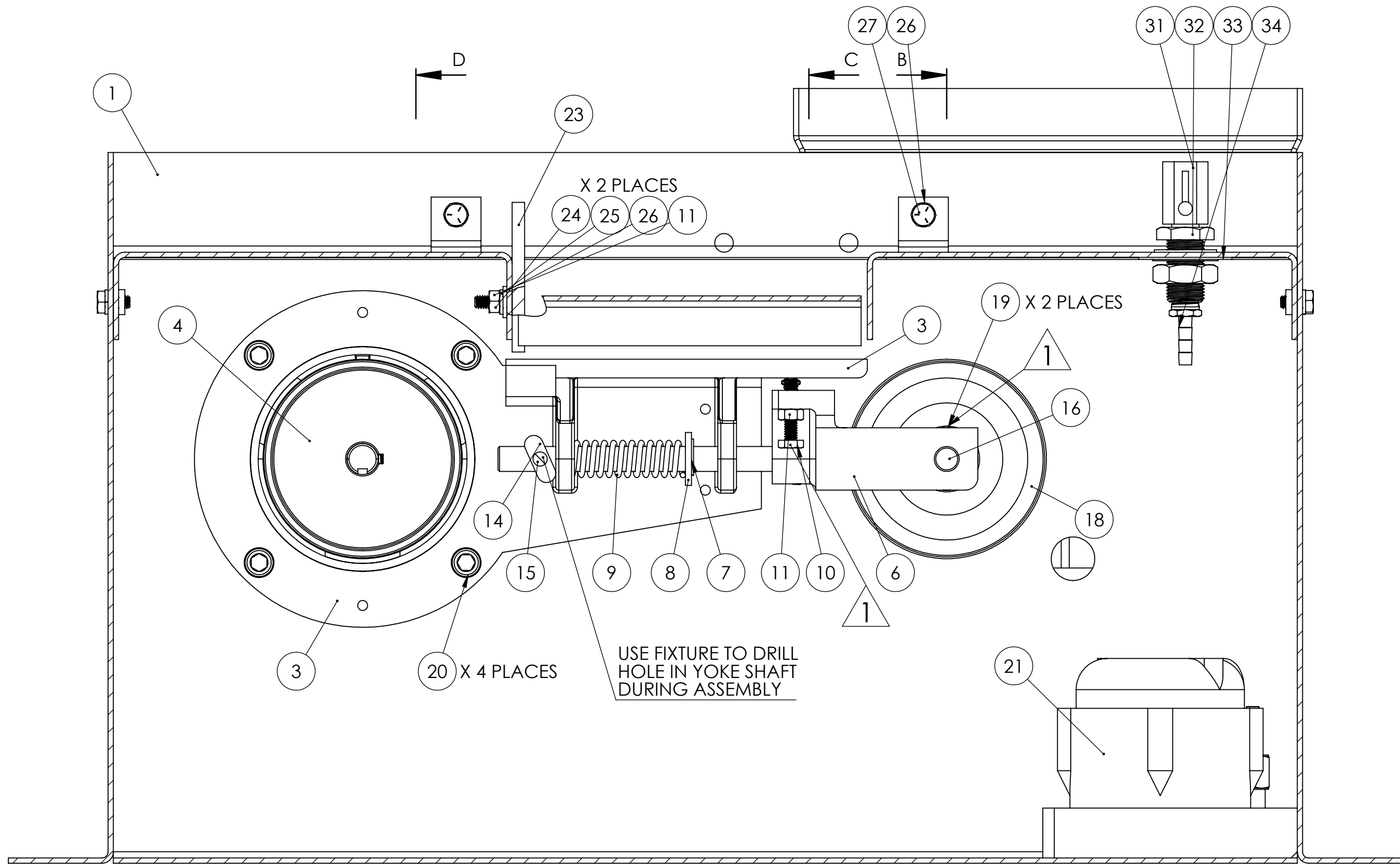
TOP VIEW



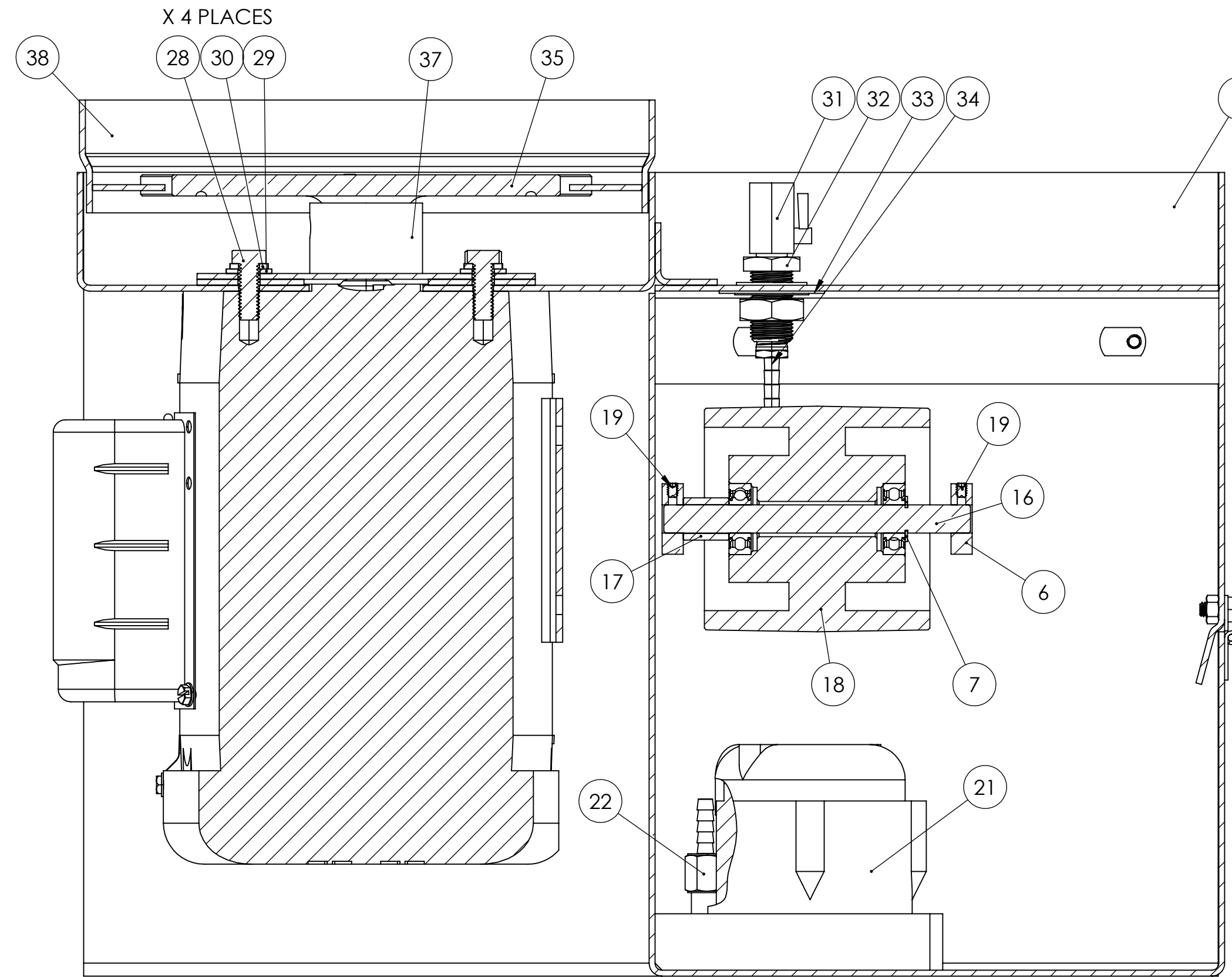
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4	560-005	PULLEY, DRIVE (ALUMINUM) FOR S4, S4S, S460D	1
5	SSKA025006	1/4-20 X 3/8 SOC SET KNURL PT.	1
6	960-002YA-REV1	S4, S4S, S4SWB YOKE AND TENSION SHAFT ASSEMBLY/ REVISION 1	1
7	EERR0.5	EERR1/2 1/2" E RETAINING RING	2
8	UFWZ050	1/2 USS F/W Z	1
9	697-010	SPRING, TENSION FOR S4 SANDERS	1
10	HHC5025020	1/4-20 X 1-1/4 HHCS GR5 Z	1
11	FHN5025	1/4-20 FHN GR5 Z	3
12	697-011	TRACKING SPRING FOR S4	1
13	CRMZ010024	10-24 X 1-1/2 COMBO ROUND M/S Z	1
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26	SLWZ025	1/4 SPLIT L/W Z	3
27	HHC5025008	1/4-20 X 1/2 HHCS GR5 Z	1
28	HHC5037016	3/8-16 X 1 HHCS GR5 Z	4
29	UFWZ037	3/8 USS F/W Z	4
30	SLWZ037	3/8 SPLIT L/W Z	4
31	S35BZ0	S35BZ0 MINIATURE BALL VALVE 1/4 M X F	1
32	W05465	W05465 AIR BRAKE BULKHEAD COUPLING 1/4	1
33	TB3703	TB 3703 1 X 1/2 REDUCING WASHER	1
34	BN22	BN22 DX HOSE BARB 1/4H X 1/4 MNPT	1
35	160-004	8" DISC HOLDER (ALUMINIUM) FOR S4SWBD	1
36	SSKA025004	1/4-20 X 1/4 SOC SET KNURL PT.	1
37	342-064	GUARD, FLANGE FOR S4SWBD	1
38	342-065	GUARD, DISC FOR S4SWBD	1
	486-013	ALTERNATE 1 HP BELT DRIVE MOTOR	



SECTION D-D
SCALE 1:2



SECTION A-A
SCALE 1:2
MAIN INTERNAL VIEW



SECTION B-B
SCALE 1:2
IDLER PULLEY INTERNAL VIEW

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INTERPRET GEOMETRIC TOLERANCES PER	G.A.	
(ASME)	COMMENTS:	
NEXT ASSY	USED ON	
APPLICATION	DO NOT SCALE DRAWING	

TITLE	1/2HP, 1PH, 110V 4X36 BELT SANDER W 8" DISC SANDER	REV	1
SIZE	DWG. NO.	SCALE	1:1.5 WEIGHT:
E	S4SWBD		