



S14D Series Belt Sanders Instruction Manual

Covers S14D - and S14HD – 14" x 103" 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 (39, 49). 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 (39, 49) to apply or release belt tension.
 - Always release air pressure after daily use to reduce unnecessary belt stretching.

OPERATING INSTRUCTIONS – Continued

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.

V-Belt Tensioning

Vertical Sander —Belt Tension & Pulley Alignment

- Lock out power; remove guards.
 - Loosen (don't remove) motor-pulley fasteners.
 - Slide motor to set V-belt tension: ~1/4" squeeze at mid-span.
 - Align pulleys: motor pulley (36) and drive pulley (36) parallel (use a straightedge).
 - Tighten fasteners, hand-rotate to verify, reinstall guards.
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V-Belt Tensioning - Continued

Horizontal Sander — Belt Tension & Pulley Alignment (Condensed)

- Lock out power; remove guards.
- Loosen motor-mount rail hardware.
- Raise/lower the motor mount rails (4) to set V-belt tension to ~1/4" (6 mm) squeeze at mid-span.
- Align pulleys: motor pulley (36) and drive pulley (36) parallel (use a straightedge).
- Tighten hardware, hand-rotate to verify, reinstall guards and restore power.

Note

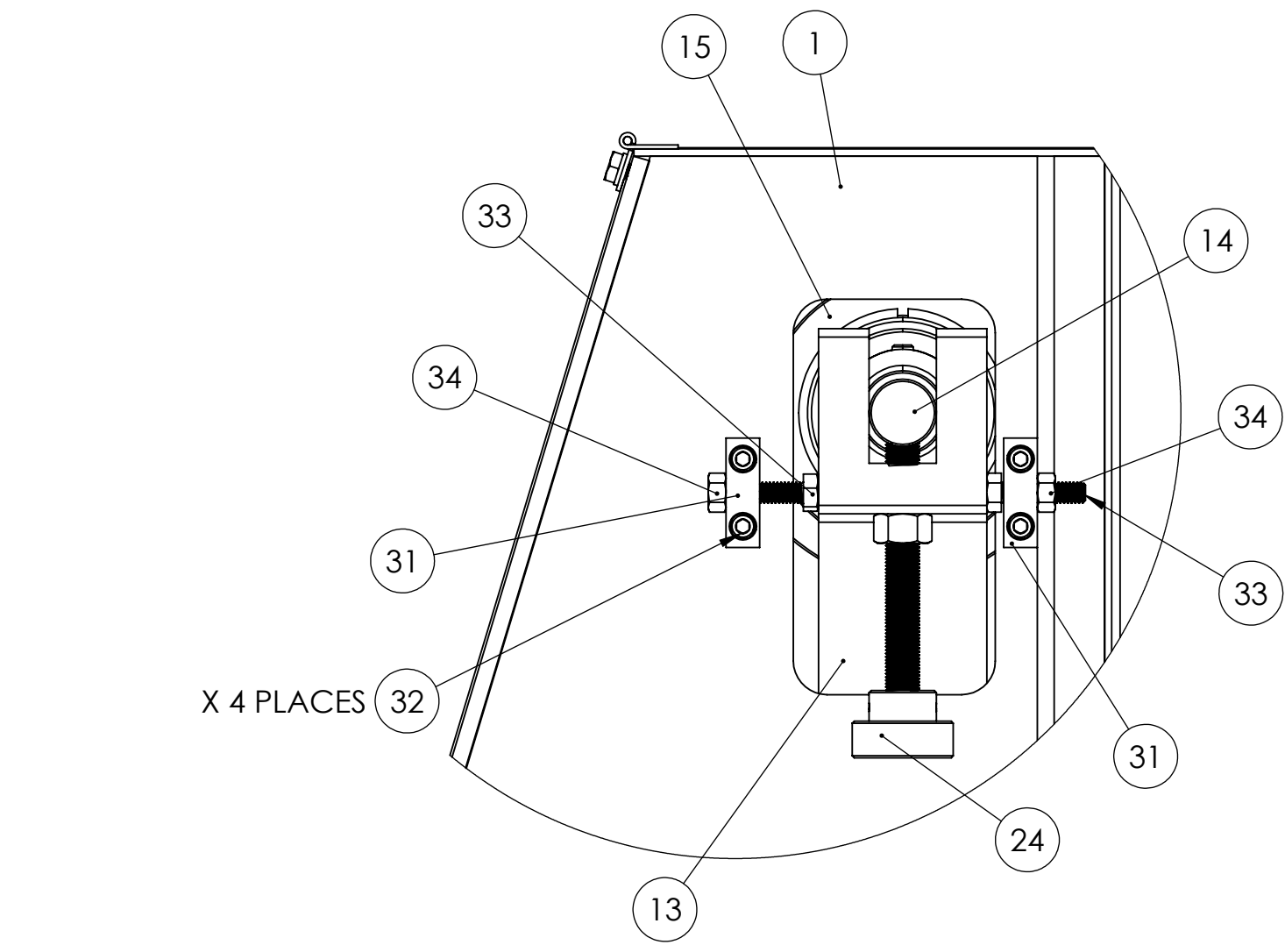
- Examine the abrasive belt carefully before use. Never use an abrasive belt with a nicked or cut edge, crease, or handling damage.
- If using a dust collector, empty the base and check or replace the filter regularly to maintain performance and prevent combustible buildup.

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.

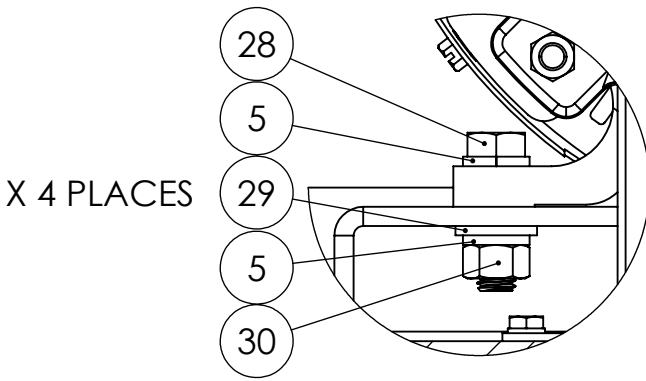
RETURN POLICY: Authorization must be obtained BEFORE returning merchandise. Contact our customer service department at 269-382-2050 for a return authorization number. Include with your return a copy of your invoice or packing slip. Materials must be sent back prepaid unless otherwise indicated. All returns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

BELT SANDER SAFETY:

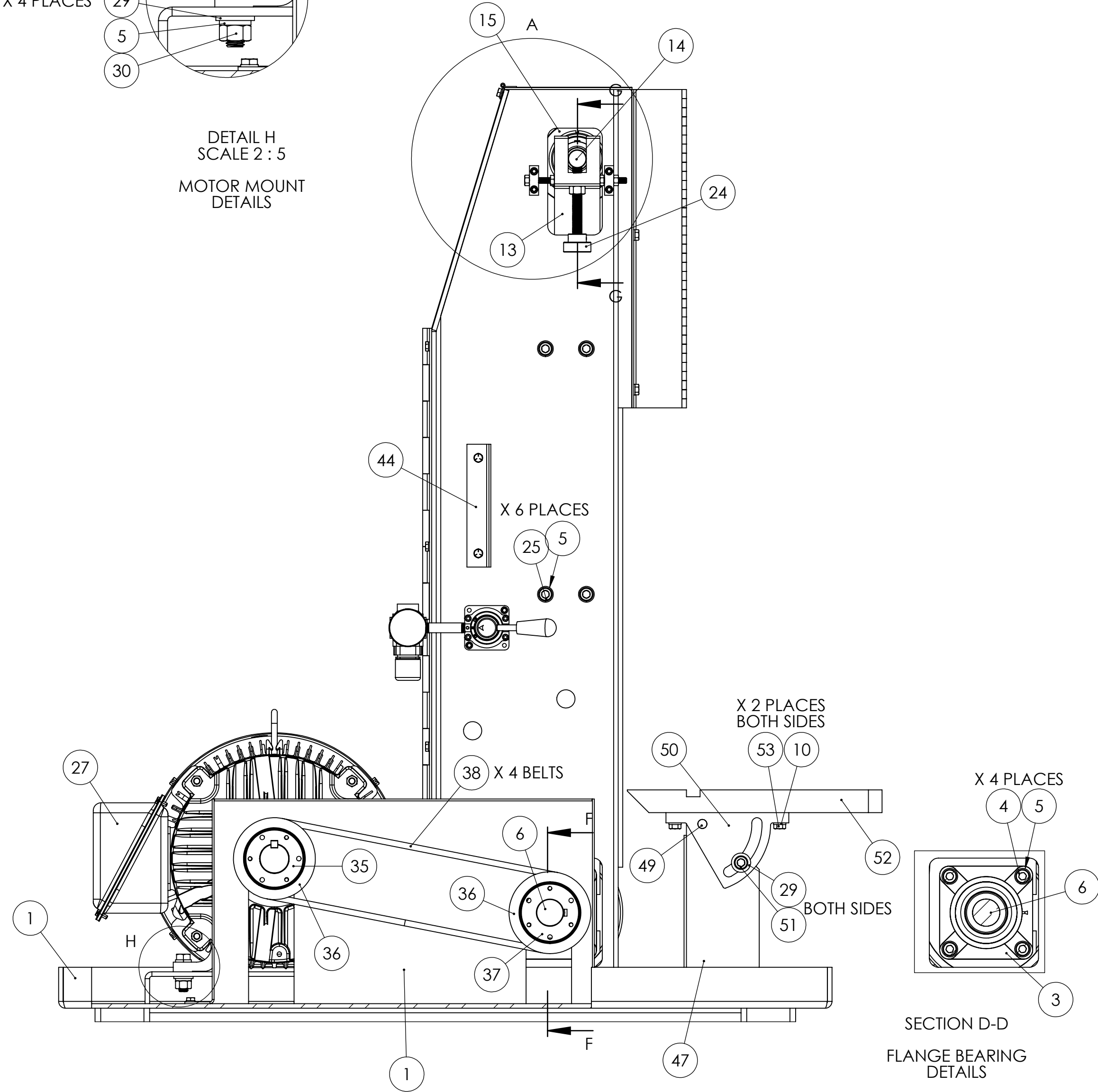
- 1) Read the operating instructions before running machine.
- 2) Always wear safety glasses or a full-face shield for protection.
- 3) Keep hands clear of the sanding area.
- 4) Never wear gloves or loose-fitting clothing when operating this machine.
- 5) Always keep hair tied back or covered.
- 6) 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.



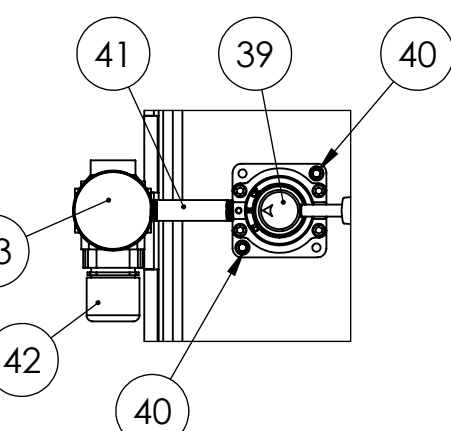
DETAIL A
TRACKING DETAILS



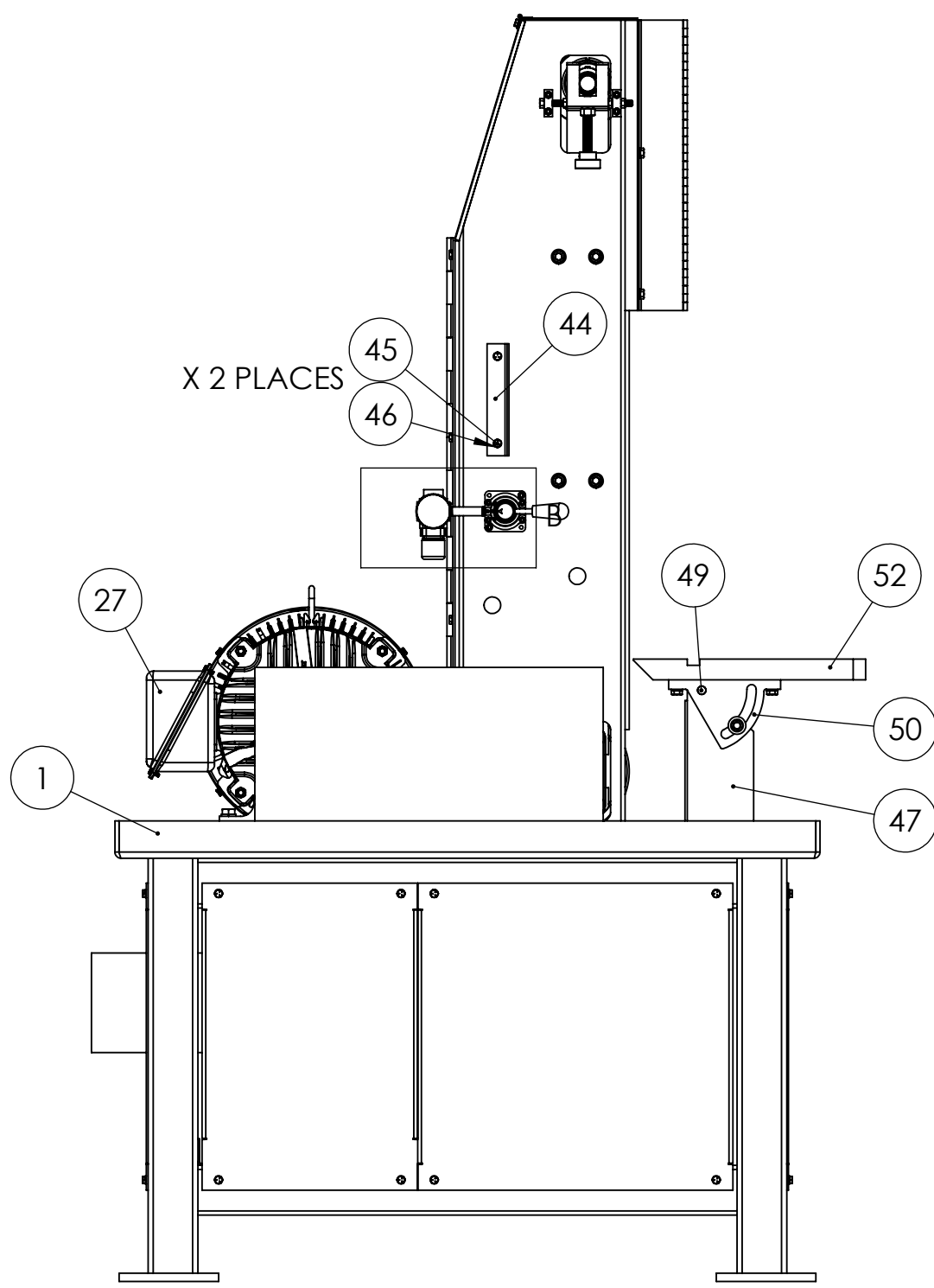
DETAIL H
SCALE 2 : 5
MOTOR MOUNT
DETAILS



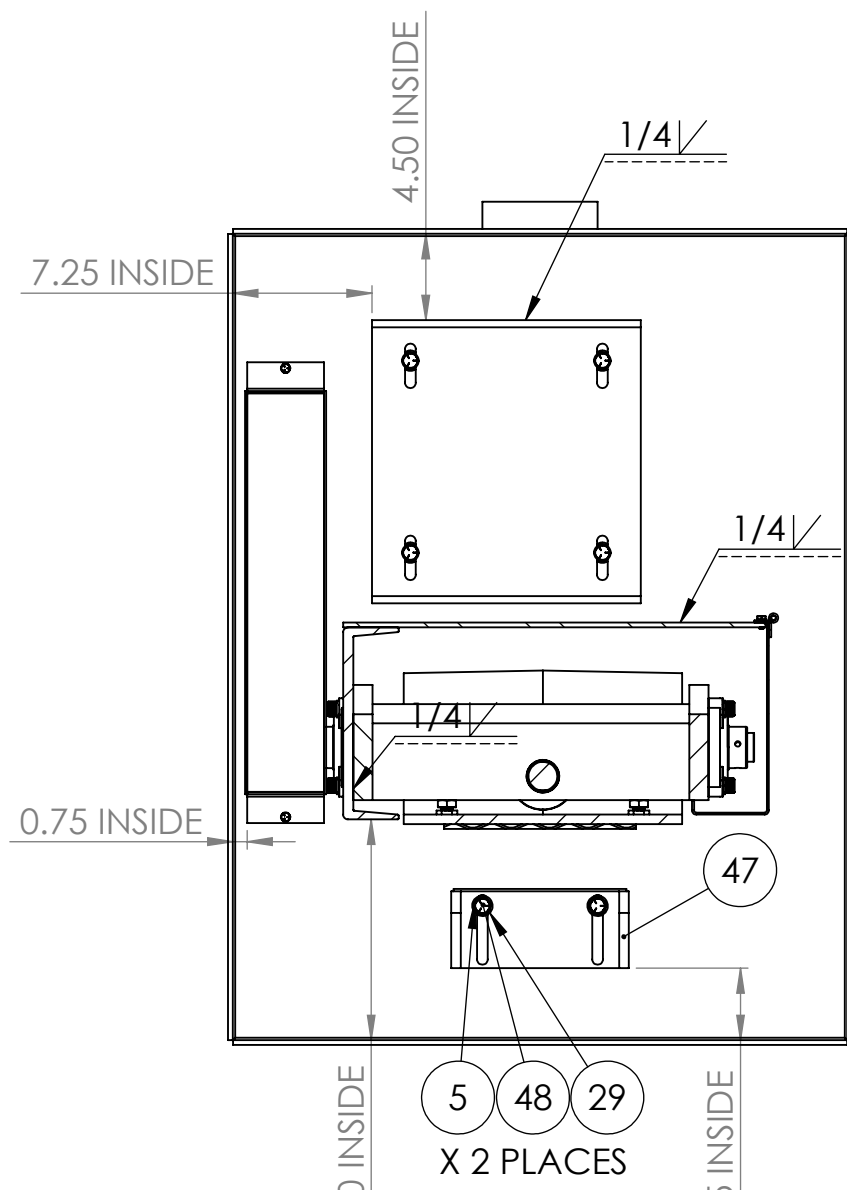
SECTION D-D
FLANGE BEARING
DETAILS



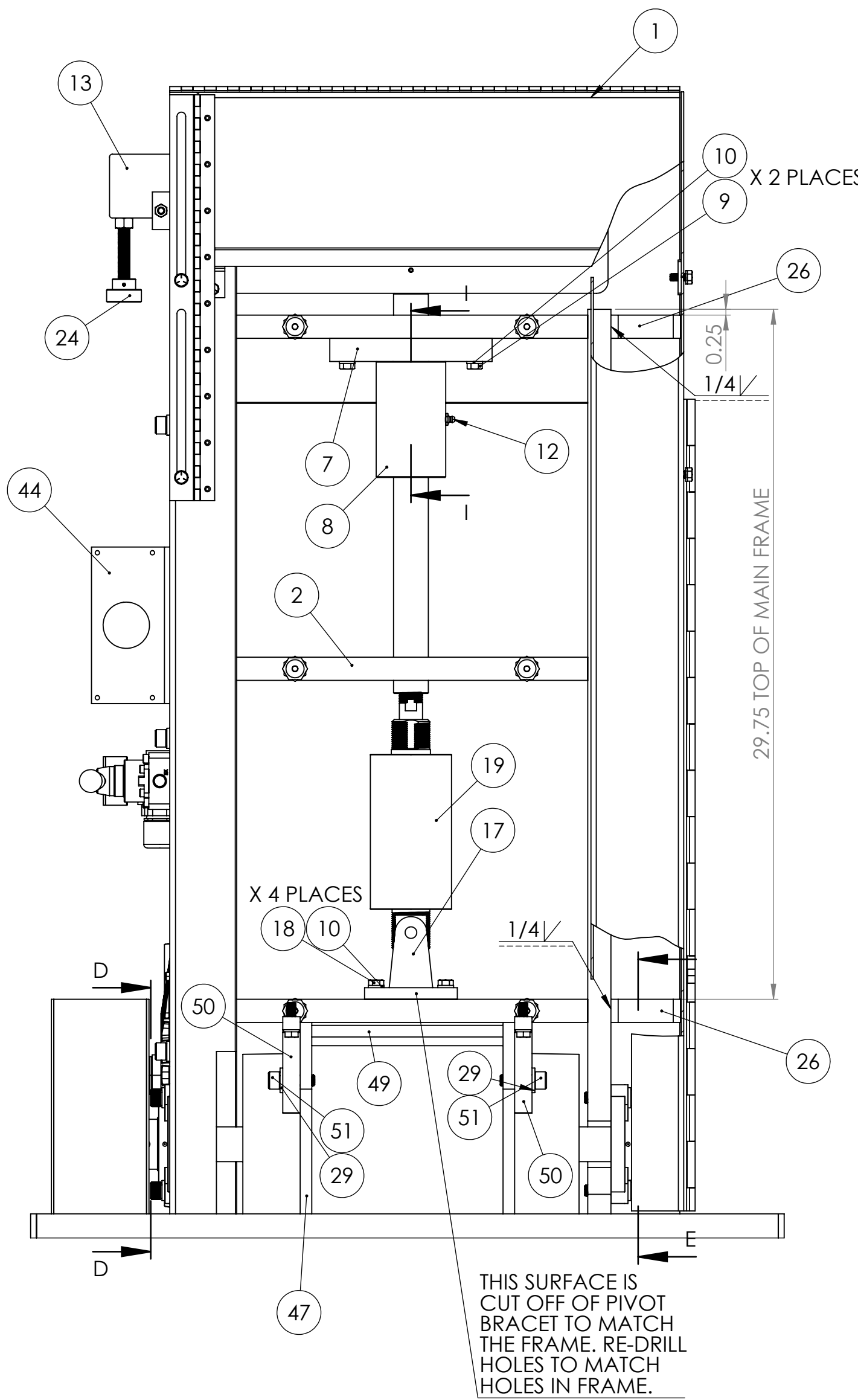
DETAIL B
PNEUMATIC DETAILS



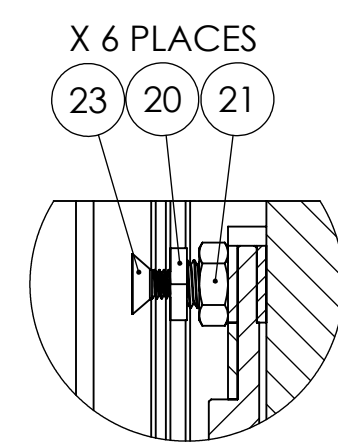
LEFT SIDE VIEW



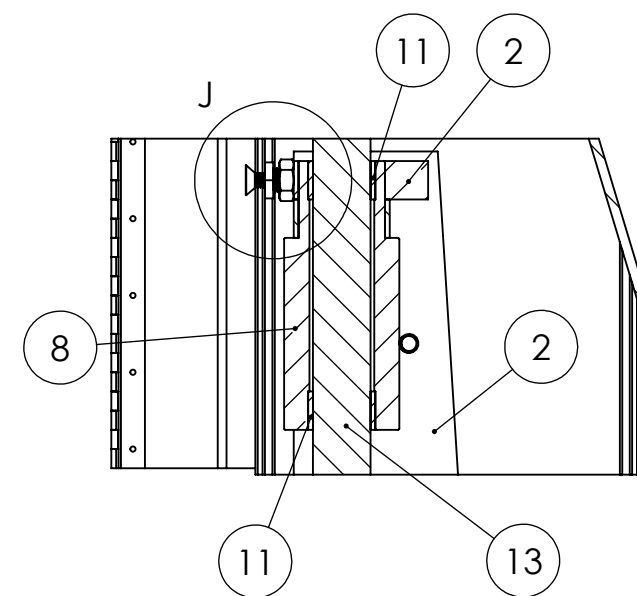
SECTION C-C
SCALE 1 : 10
FLOOR PAN MAIN FRAME
AND MOTOR MOUNT WELDING
DETAILS



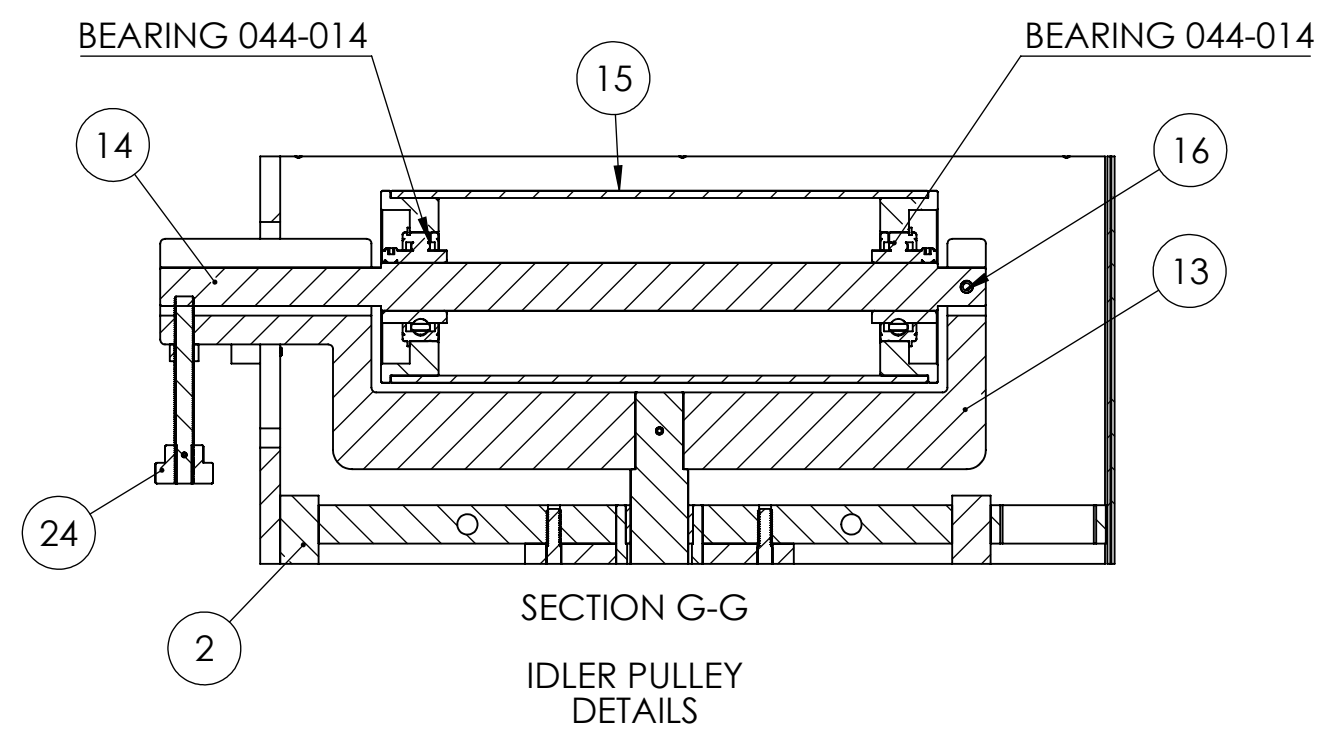
FRONT VIEW



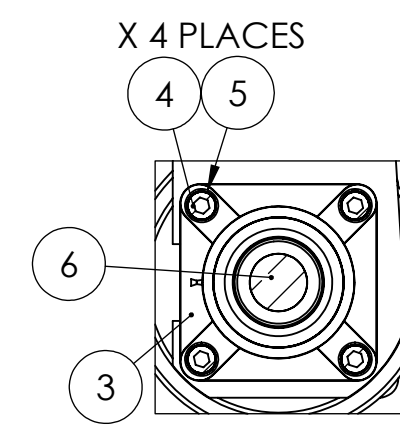
DETAIL J
SCALE 2 : 5
PLATEN LEVELING
DETAILS



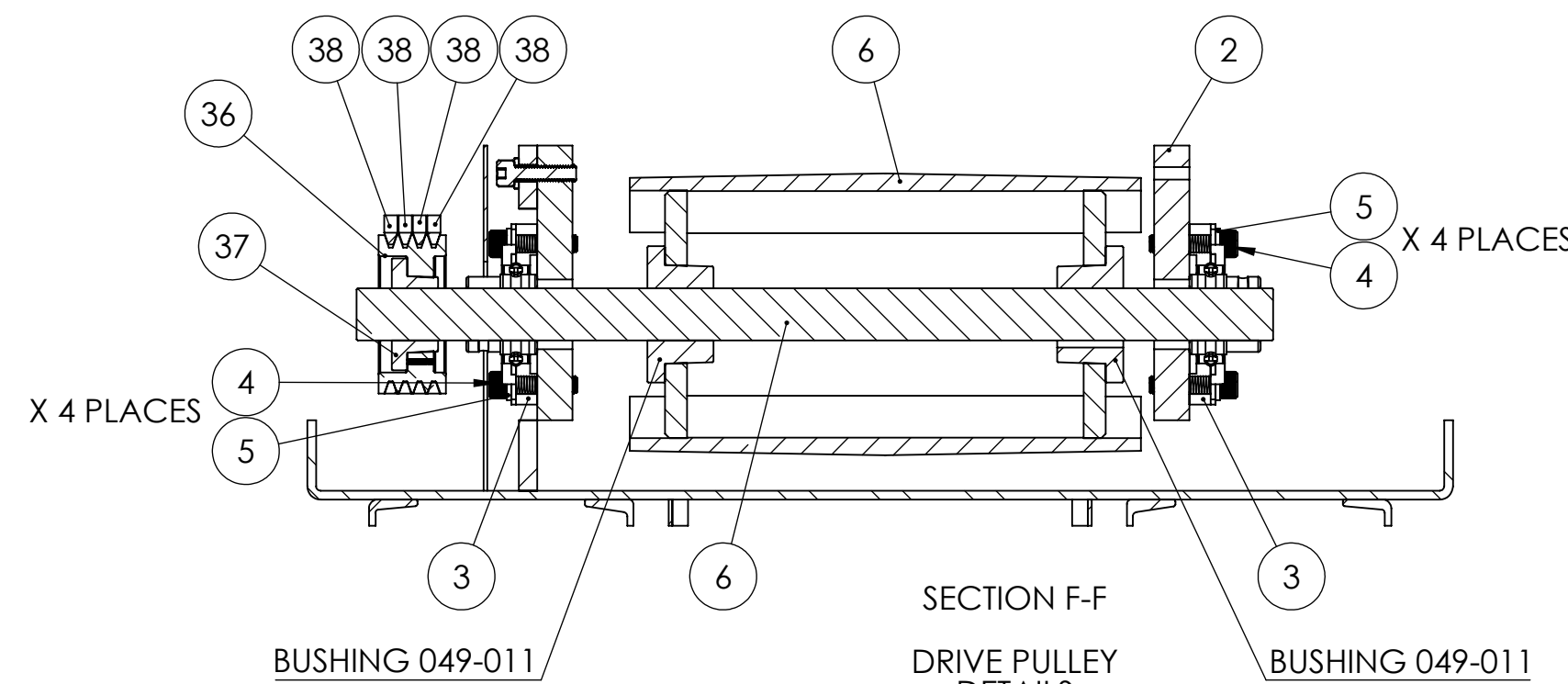
SECTION I-I
YOKE SLEEVE
DETAILS



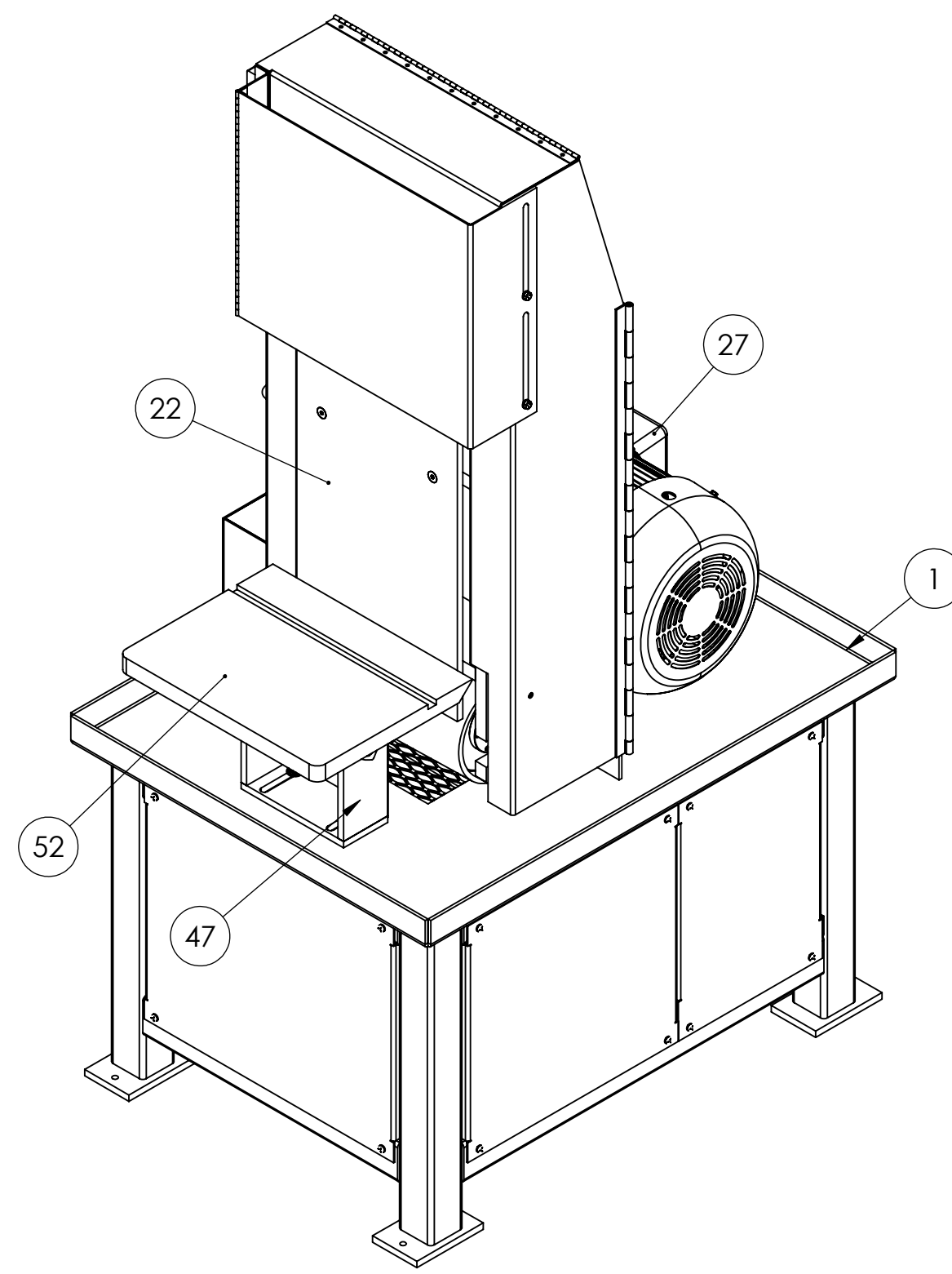
SECTION G-G
IDLER PULLEY
DETAILS



SECTION E-E
FLANGE BEARING
DETAILS



SECTION F-F
DRIVE PULLEY
DETAILS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	716-007D	STAND FOR S14D VERTICAL SANDER	1
2	291-027	PLATEN SUPPORT FRAME FOR S14 SANDERS	1
3	044-013	UCF208-24 4 BOLT FLANGE BRG 1-1/2 IN FOR S10, S14 DRIVE PULLEY	2
4	SHCA050032	1/2-13 X 2 SHCS	8
5	SLW2050	1/2 SPLIT L/W Z	24
6	560-041	DRIVE PULLEY WITH SPINDLE FOR S14 SANDERS	1
7	556-047	PLATE, SLEEVE BUSHING FOR S10 AND S14	1
8	714-005	SLEEVE, YOKE SHAFT FOR S10, S14	1
9	HHC5037032	3/8-16 X 2 HHCS GR5 Z	2
10	SLW2037	3/8 SPLIT L/W Z	10
11	RLB AA-1704-15	AA-1704-15 BRONZE BUSHING 1-1/2 X 1-3/4 X 1	2
12	ZERK012000	1/8-27 X 1 1/16 STRT LUBE FITTING	1
13	960-009ASSY	YOKE AND YOKE SHAFT ASSEMBLY FOR 14 INCH SANDERS	1
14	701-030	SPINDLE, IDLER FOR S14 SANDERS	1
15	560-028	IDLER PULLEY W BEARINGS FOR S14 SANDERS	1
16	ROLA031040	5/16 X 2-1/2 ROLL PIN	1
17	1-34-65	1-34-65 SWIVEL BRACKET & PIN FOR 2-1/2 AND 3-1/4 CYLINDER SERIES O CYLINDERS	1
18	HHC5037024	3/8-16 X 1-1/2 HHCS GR5 Z	4
19	131-013	0-3-1/4 X 2 FLAIRLINE CYLINDER FOR S14 SANDERS	1
20	696-018	SCREW, LEVELING FOR S14 SANDERS	6
21	FJNZ062	5/8-11 F H JAM NUT Z	6
22	563-006	PLATEN FOR S14 SANDERS	1
23	FSCA037016	3/8-16 X 1 FSHCS	6
24	441-016ASSY	TRACKING KNOB ASSEMBLY FOR S8 AND S10 SANDERS	1
25	SHCA050028	1/2-13 X 1-3/4 SHCS	6
26	S10-S14FRAMESTANDOFF	FRAME STAND-OFF FOR S10 AND S14 SANDERS	2
27	486-038	20HP MOTOR FOR K20FS-20, K2AS, S14 SANDERS	1
28	HHC5050028	1/2-13 X 1-3/4 HHCS GR5 Z	4
29	UFW2050	1/2 USS F/W Z	8
30	FHN5050	1/2-13 FHN GR5 Z	4
31	053-009	TRACKING BLOCK- 5/16 THREADED HOLE	2
32	SHCA025016	1/4-20 X 1 SHCS	4
33	HHC5031020	5/16-18 X 1-1/4 HHCS GR 5 Z	2
34	FHN5031	5/16-18 FHN GR5 ZINC	2
35	049-023	SPINDLE PULLEY BUSHING FOR S14 SANDER	1
36	560-058	SPINDLE PULLEY SHEAVE FOR K20SSF-20HP AND KM20-22/20HP, MOTOR AND SPINDLE PULLEY SHEAVE FOR FOR S10 AND S14 SANDERS	2
37	049-069	MOTOR AND SPINDLE PULLEY BUSHING FOR S10 AND S14 SANDERS	1
38	051-010	3VX450 V-BELT FOR S10D AND S10W	4
39	912-014	HVN14200-8 PARKER 1/4 WAY VALVE, 3P ROTARY HAND VALVE	1
40	SHCA025024	1/4-20 X 1-1/2 SHCS	2
41	02530040BLN	02530040BLN 1/4 X 3 BLACK PIPE NIPPLE	1
42	R72G2AKRMN	R72G2AKRMN 1/4" REGULATOR	1
43	18-013-212	18-013-212 1.5- 1/8 CBM-O-160	1
44	041-112	SWITCH BRACKET FOR E2PB BUTTON ENCLOSURE	1
45	HHC5025008	1/4-20 X 1/2 HHCS GR5 Z	2
46	SLW2025	1/4 SPLIT L/W Z	2
47	711-013	SUPPORT, TABLE S10 AND S14 SANDERS	1
48	HHC5050024	1/2-13 X 1-1/2 HEX HEAD CAP SCREW	2
49	711-013ROD	10-3/4 INCHES OF 1/2 RND CRS C1018	1
50	831-014	TRUNNION, TABLE FOR S14 SANDERS	2
51	SHCA050024	1/2-13 X 1-1/2 SHCS	2
52	829-023	TABLE, WORK FOR S10 AND S14 SANDERS	1
53	HHC5037020	3/8-16 X 1-1/4 HHCS GR5 Z	4

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES			
TOLERANCES:		CHECKED	
FRACTIONS & ANGULAR DIMS: REND 1		ENG APPR	
THREE PLACE DECIMAL 1		INFO APPR	
INTERPRET GEOMETRIC TOLERANCES PER ASME Y14.5		G.A.	
COMMENTS:			
NEXT ASSY	USED ON	FRSH	
APPLICATION		DO NOT SCALE DRAWING	

PROPRIETARY/CONFIDENTIAL

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TITLE:

14 INCH DRY VERTICAL SANDER

SIZE: DWG. NO. E S14D

SCALE: 1:5 WEIGHT: REV SHEET 1 OF 2

