



S10D Series Belt Sanders Instruction Manual

Covers S10D- and S10HD – 10" x 90" 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 (47, 55). 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 (47, 55) 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.

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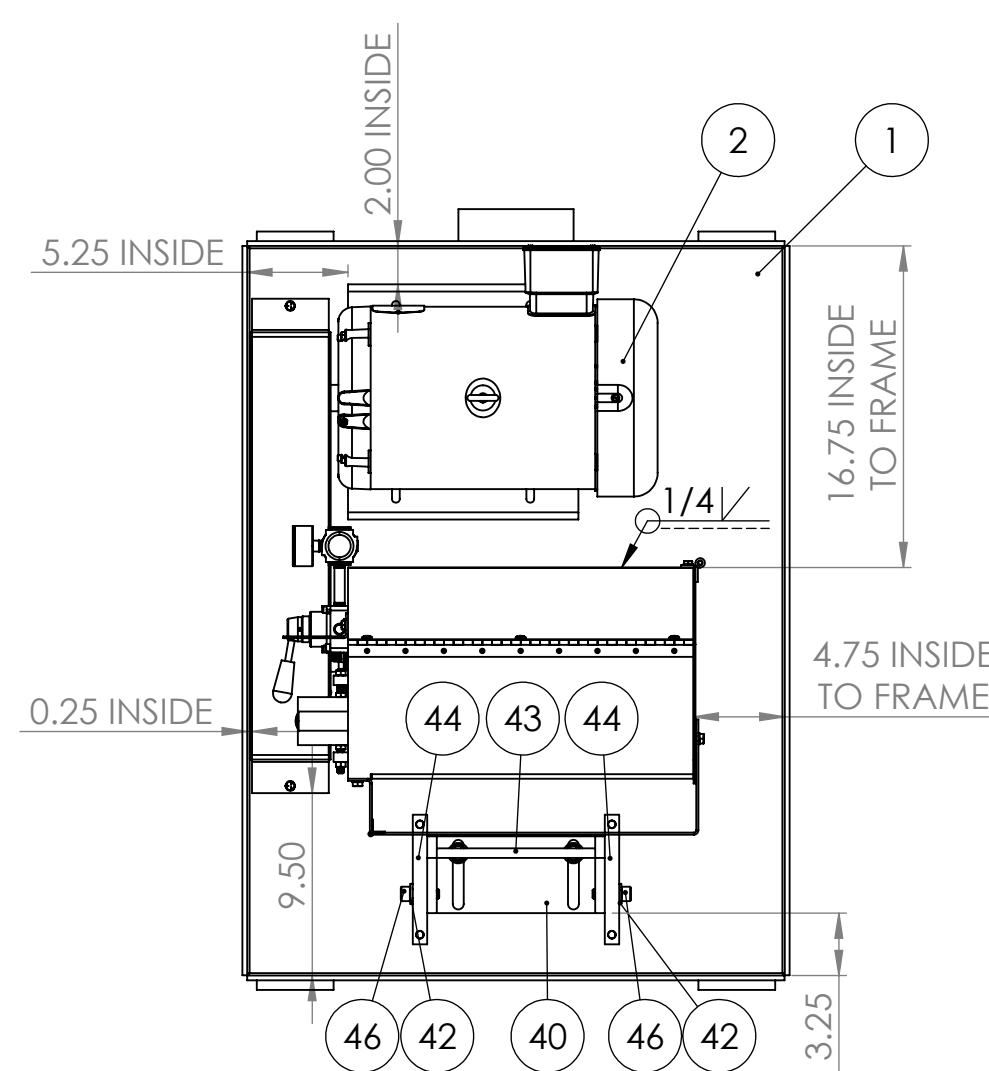
WARRANTY: All products are guaranteed for a period of one year to the original purchaser, against defects in material workmanship under normal use. Exclusions may apply.

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.

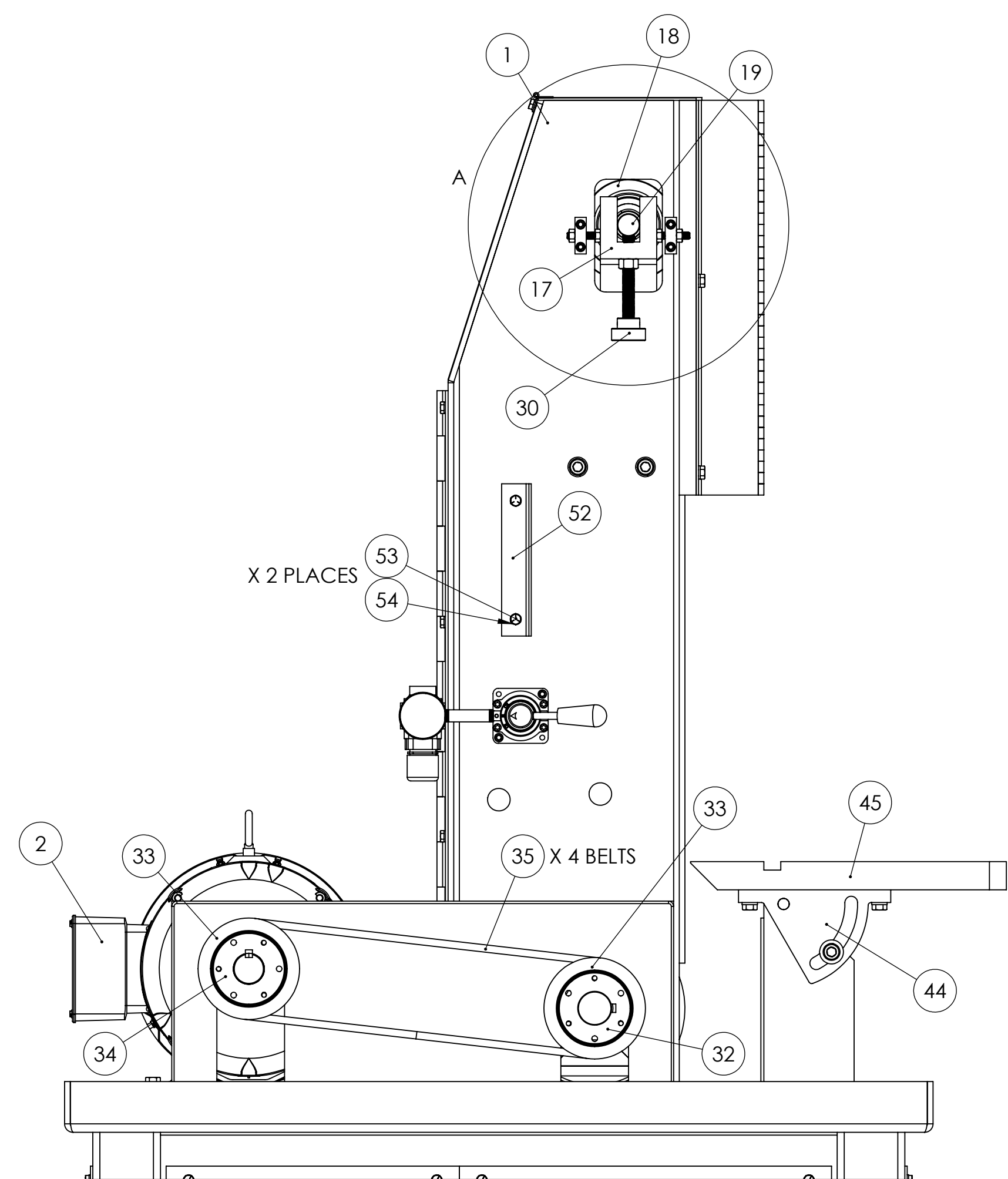
BELT SANDER SAFETY:

- 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.

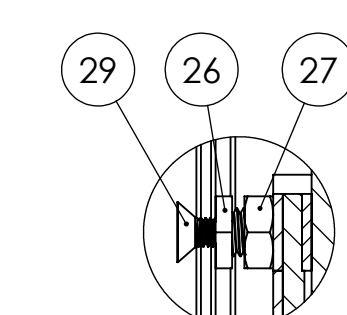
DETAIL A
TRACKING DETAILS
SCALE 1 : 2



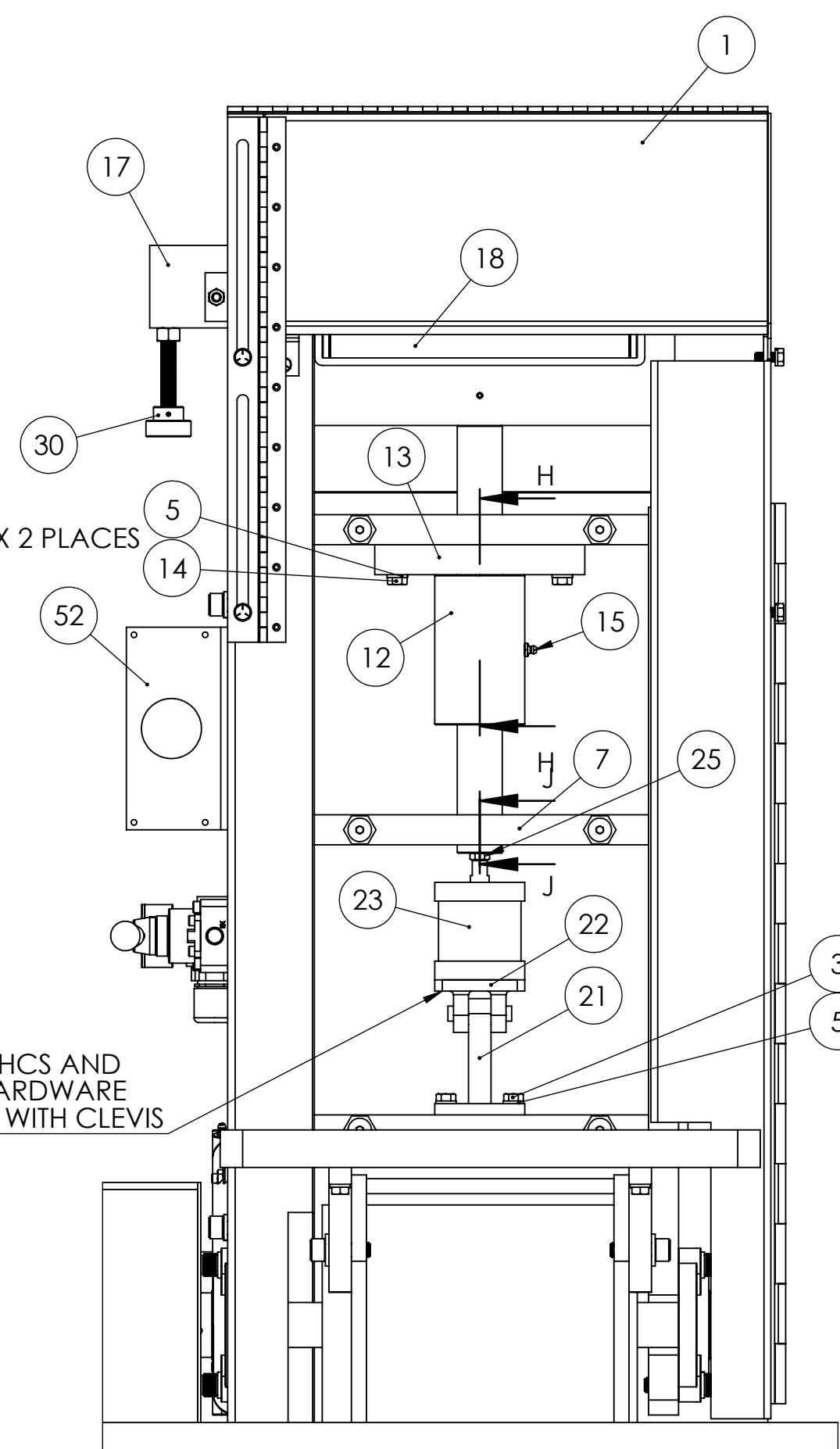
FLOOR PAN, MAIN FRAME
AND MOTOR MOUNT WELDING
LAYOUT



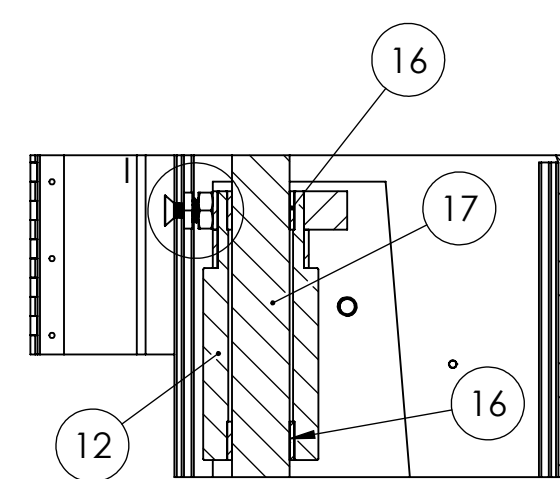
INTERIOR VIEW OF BELTS AND PULLEYS



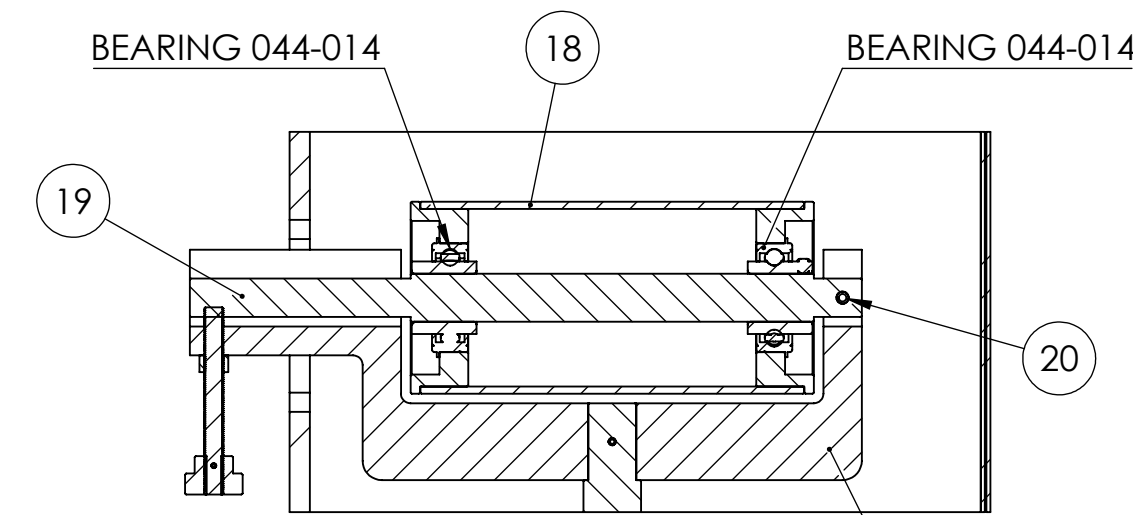
DETAIL I
SCALE 2 : 5
PLATEN LEVELING DETAILS
X 6 UNITS



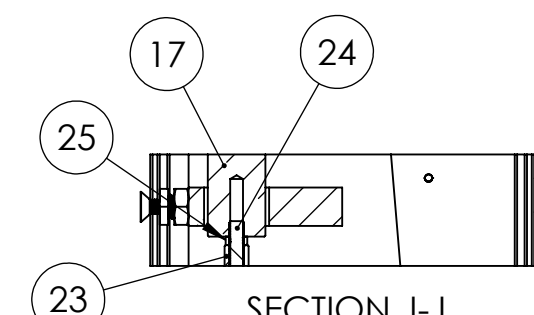
INTERIOR FRONT VIEW
OF MAIN FRAME



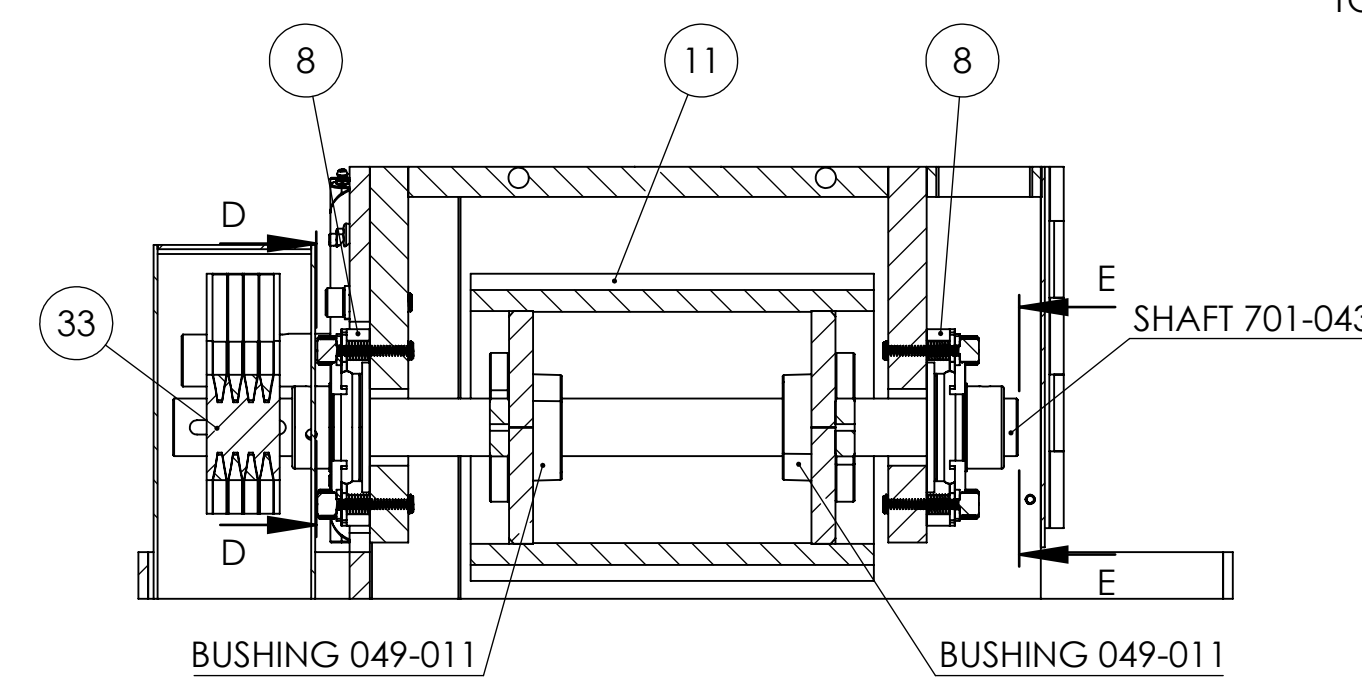
SECTION H-H
INTERNAL OF
YOKE SHAFT SLEEVE



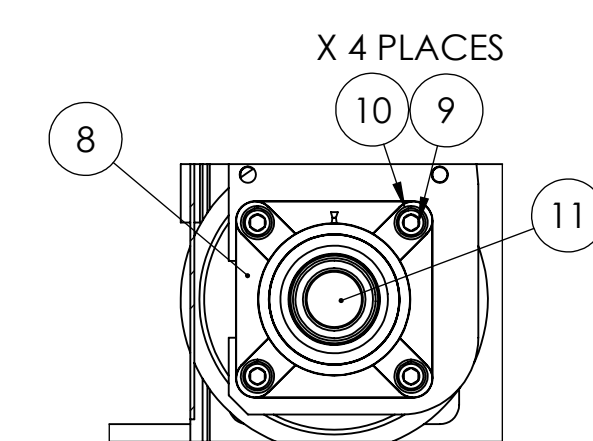
SECTION C-C
IDLER PULLEY DETAILS



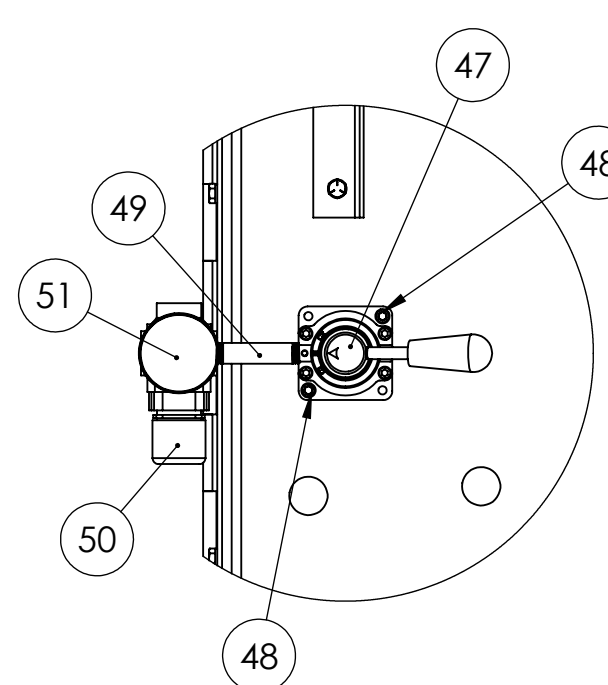
SECTION J-J
YOKE SHAFT
PNEUMATIC CYLINDER



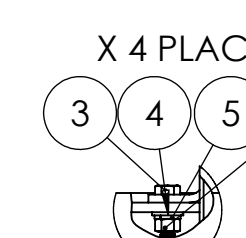
SECTION B-B
DRIVE PULLEY DETAILS



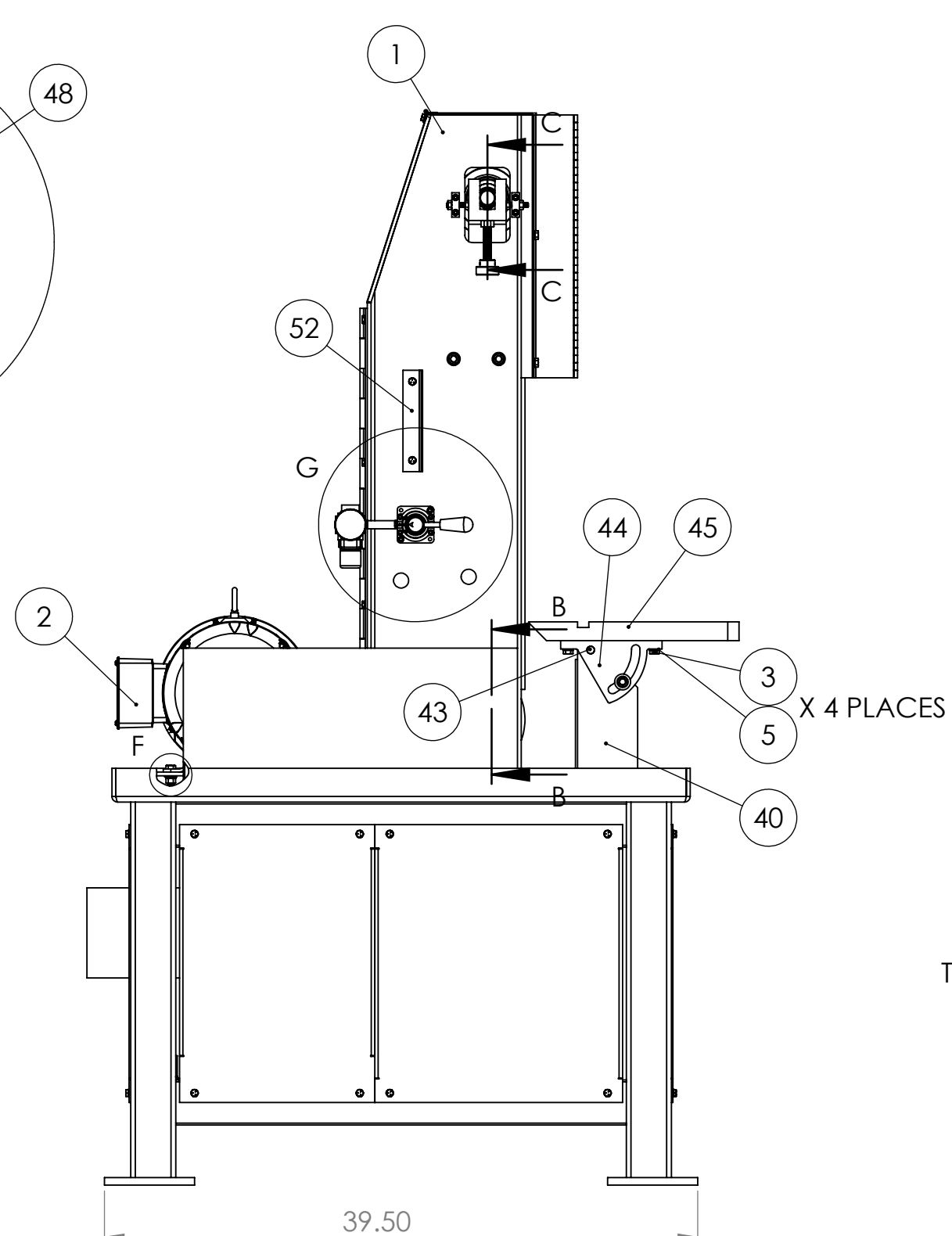
SECTION E-E
ATTACHMENT OF



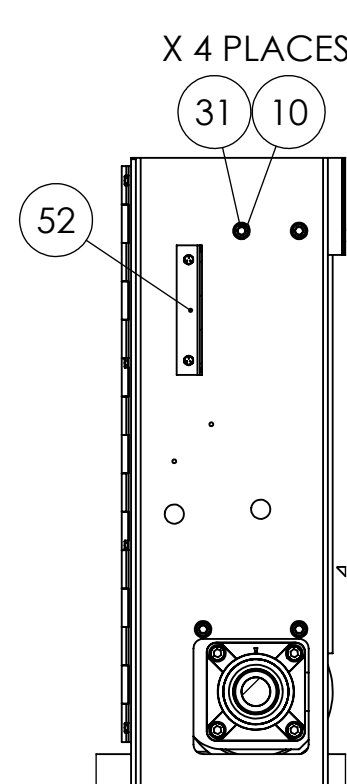
DETAIL G



DETAIL F
MOTOR FASTENERS

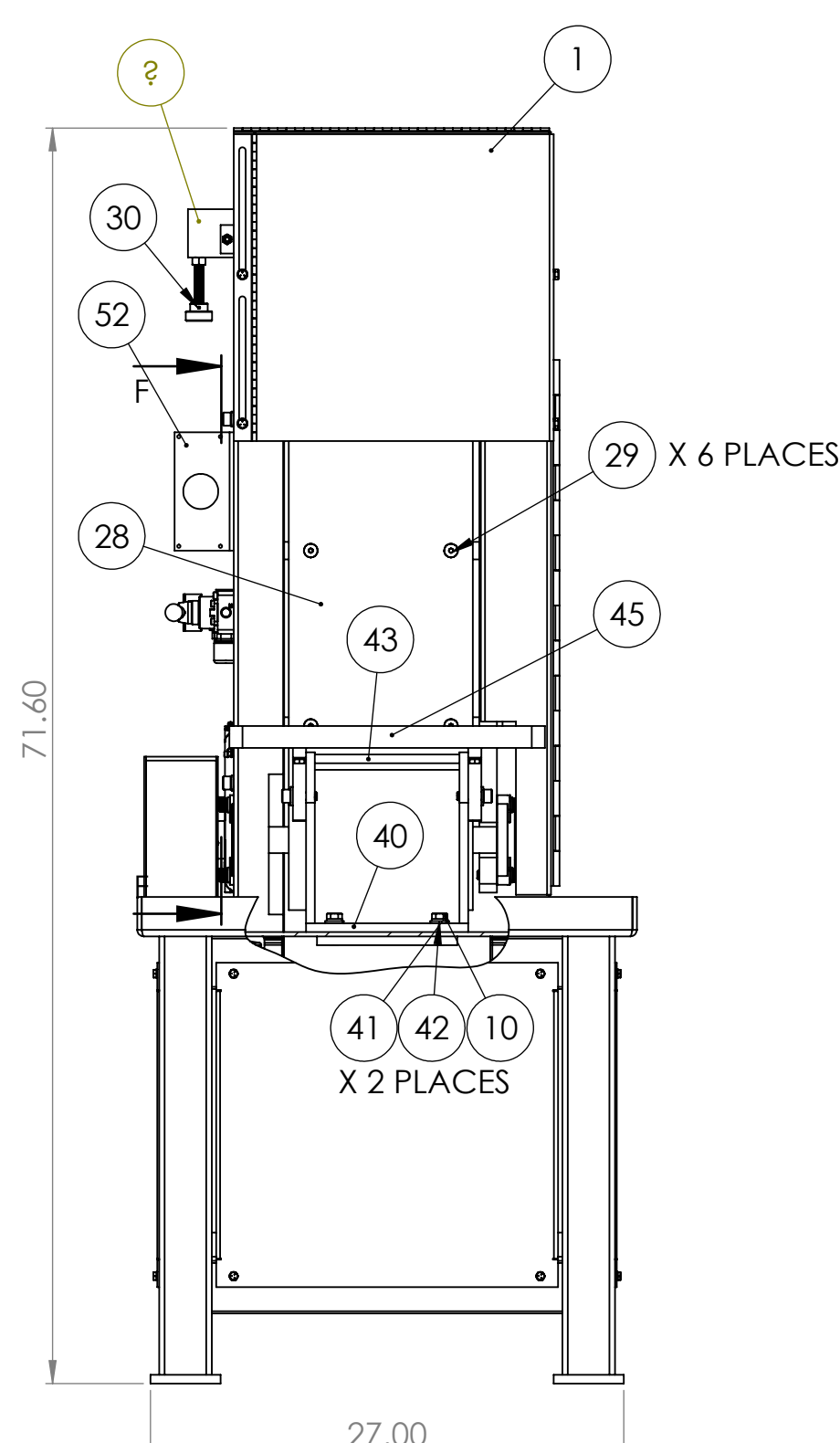


LEFT SIDE VIEW

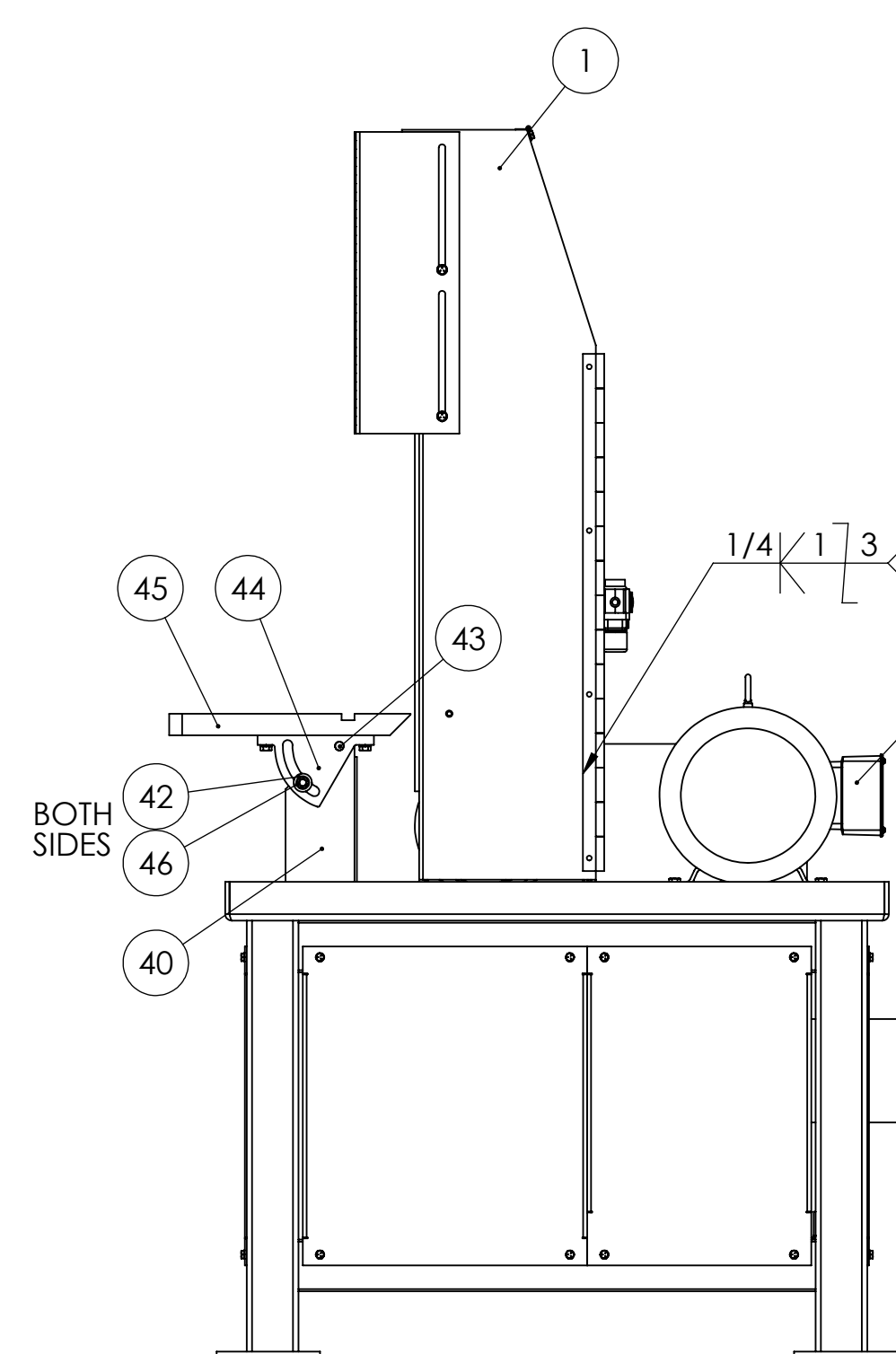


SECTION F-F
SCALE 1 : 10

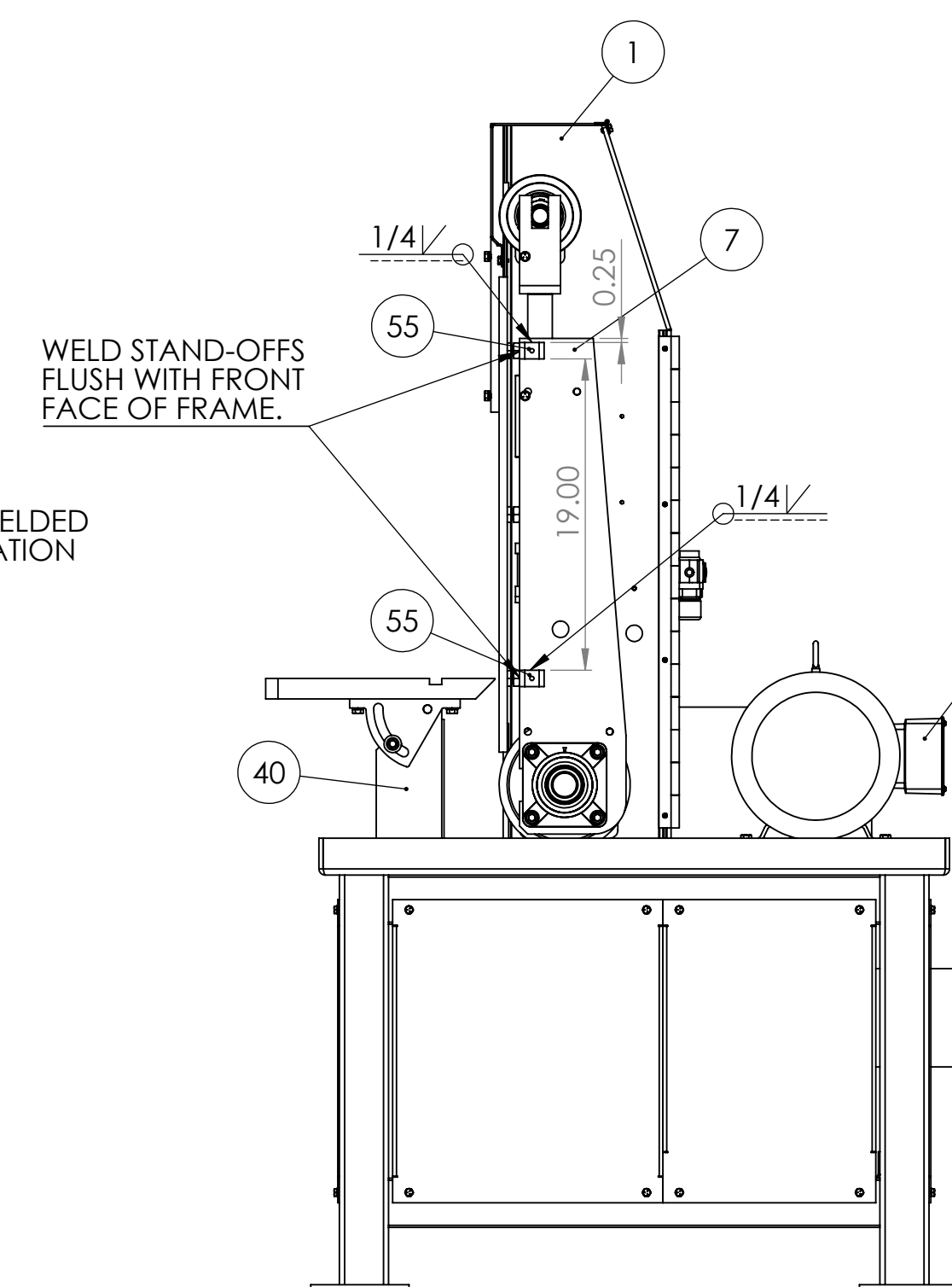
ATTACH MAIN FRAME
TO CHANNEL FRAME SUPPORT



FRONT VIEW



RIGHT SIDE VIEW



WELDING
FRAME STAND-OFFS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	714-005	STAND, FOR S10D SANDER	1
2	486-040	10HP MOTOR FOR S10 SANDERS	1
3	HHCS5037020	3/8-16 X 1-1/4 HHCS GR5 Z	10
4	UFWZ037	3/8 USS F/W Z	4
5	SLWZ037	3/8 SPLIT L/W Z	12
6	FHN5037	3/8-16 FHN GR5 Z	4
7	291-032	MAIN FRAME FOR S10D SANDER	1
8	044-013	UCF208-24 4 BOLT FLANGE BRG 1-1/2 IN FOR S10, S14 DRIVE PULLEY	2
9	SHCA050032	1/2-13 X 2 SHCS	8
10	SLWZ050	1/2 SPLIT L/W Z	14
11	560-055	DRIVE PULLEY ASSEMBLY FOR S10 SANDERS	1
12	714-005	SLEEVE, YOKE SHAFT FOR S10, S14	1
13	556-047	PLATE, SLEEVE BUSHING FOR S10 AND S14	1
14	HHCS5037032	3/8-16 X 2 HHCS GR5 Z	2
15	ZERK012000	1/8-27 X 1 1/16 STRT LUBE FITTING	1
16	RLB AA-1704-15	AA-1704-15 BRONZE BUSHING 1-1/2 X 1-3/4 X 1	2
17	960-018ASSY	YOKE AND YOKE SHAFT ASSEMBLY FOR 10 INCH SANDERS	1
18	560-054	IDLER PULLEY W BEARINGS FOR S10D SANDERS	1
19	701-042	SPINDLE, IDLER FOR S10D SANDERS	1
20	ROLA031040	5/16 X 2-1/2 ROLL PIN	1
21	041-119	T-BRACKET, FOR CYLINDER PIVOT ON S10D	1
22	151-003	CLEVIS, AIR CYLINDER FOR S10 SANDER	1
23	131-010	2500B-1.50 2.50X1.50 AMERICAN MINI PAK CYLINDER FOR S8, S10 SANDERS	1
24	709-010A	3/8-24 X 1-1/4 STUD FOR S8D SANDERS	1
25	FJNZ038	3/8-24 F H JAM NUT	1
26	696-018	SCREW, LEVELING FOR S14 SANDERS	6
27	FJNZ062	5/8-11 F H JAM NUT Z	6
28	563-025	PLATEN FOR S10D SANDERS	1
29	FSCA037016	3/8-16 X 1 FSHCS	6
30	441-016ASSY	TRACKING KNOB ASSEMBLY FOR S8 AND S10 SANDERS	1
31	SHCA050028	1/2-13 X 1-3/4 SHCS	4
32	049-069	MOTOR AND SPINDLE PULLEY BUSHING FOR S10 AND S14 SANDERS	1
33	560-058	SPINDLE PULLEY SHEAVE FOR K20SSF-20HP AND KM20 22/20HP, MOTOR AND SPINDLE PULLEY SHEAVE FOR FOR S10 AND S14 SANDERS	2
34	049-003	MOTOR PULLEY BUSHING FOR FOR K14-18, KM16-18, K20SSF-15, K20RS-15, K20SW-15, KM20-22-15HP, KM20-22W-15, S10D	1
35	051-010	3VX450 V-BELT FOR S10D AND S10W	4
36	053-009	TRACKING BLOCK- 5/16 THREADED HOLE	2
37	SHCA025016	1/4-20 X 1 SHCS	4
38	HHCS5031020	5/16-18 X 1-1/4 HHCS GR5 Z	2
39	FHN5031	5/16-18 FHN GR5 ZINC	2
40	711-013	SUPPORT, TABLE S10 AND S14 SANDERS	1
41	HHCS5050024	1/2-13 X 1-1/2 HEX HEAD CAP SCREW	1
42	UFWZ050	1/2 USS F/W Z	4
43	711-013ROD	10-3/4 INCHES OF 1/2 RND CRS C1018	1
44	831-014	TRUNNION, TABLE FOR S14 SANDERS	2
45	829-023	TABLE, WORK FOR S10 AND S14 SANDERS	1
46	SHCA050024	1/2-13 X 1-1/2 SHCS	2
47	912-014	HVN4200-8 PARKER 1/4 WAY VALVE, 3P ROTARY HAND VALVE	1
48	SHCA0250024	1/2-20 X 1-1/2 SHCS	2
49	02530040BLN	02530040BLN 1/4 X 3 BLACK PIPE NIPPLE	1
50	R72G2AKRMM	R72G2AKRMM 1/4" REGULATOR	1
51	18-013-212	18-013-212 1.5- 1/8 CBM-O-160	1
52	041-112	SWITCH BRACKET FOR E2PB BUTTON ENCLOSURE	1
53	HHCS5025008	1/4-20 X 1/2 HHCS GR5 Z	2
54	SLWZ025	1/4 SPLIT L/W Z	2
55	S10- S14FRAMESTANDOFF	FRAME STAND-OFF FOR S10 AND S14 SANDERS	2

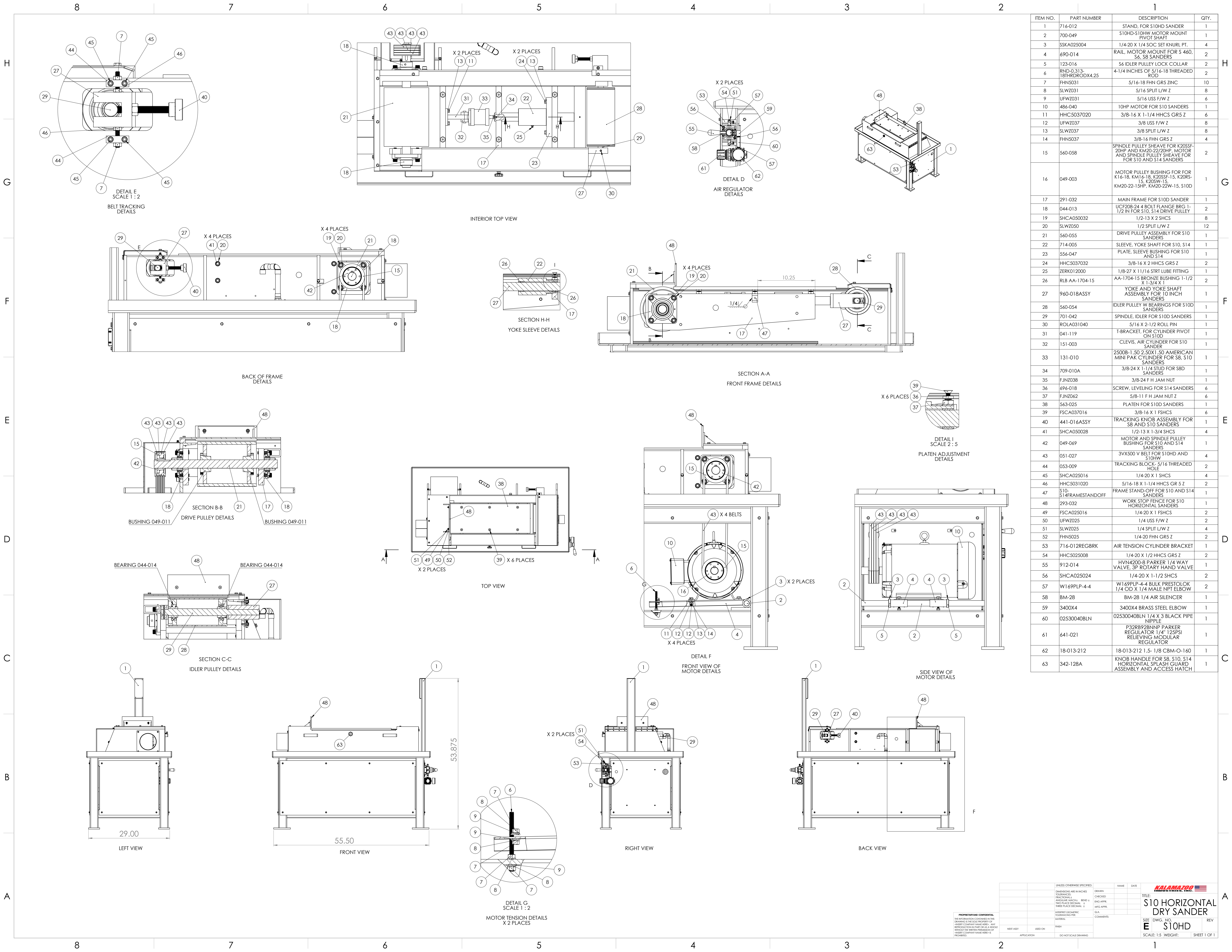
DRIVE PULLEY 560-055 INCLUDES:

(1) SHAFT 701-043
(2) BUSHING 049-011

IDLER PULLEY 560-054 INCLUDES:

(2) BEARING 044-014

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	 KALAMAZOO COUNTY, MICH.
DIMENSIONS ARE IN INCHES		DRAWN		
TOLERANCES ARE FRACTIONS		CHECKED		TITLE: 10" DRY VERTICAL SANDER
ANGLES IN DEGREES		INCHES		
TWO PLACE DECIMAL		PERCENT		
TWO PLACE DECIMAL		PERCENT		
TWO PLACE DECIMAL		PERCENT		
INTERPRET GEOMETRIC CONSTRUCTIONS PER A.S.T.M.		G.A.		SIZE DWG. NO. REV SCALE \$10D
MATERIAL		COMMENTS		
NEED STAY	USED ON	FINISH		SCALE: 1/8" = 1' WEIGHT: SHEET 1 OF 1
APPLICATION		DO NOT SCALE DRAWING		



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	716-012	STAND, FOR S10HD SANDER	1
2	700-049	S10HD-S10HW MOTOR MOUNT PIVOT SHAFT	1
3	SSKA025004	1/4-20 X 1/4 SOCC SET KNURL PT.	4
4	690-014	RAIL, MOTOR MOUNT FOR S 460, S6, S8 SANDERS	2
5	123-016	S6 IDLER PULLEY LOCK COLLAR	2
6	RND-D-318-18THDRDRODX4.25	4-1/4 INCHES OD 1/4-18 THREADED ROD	2
7	FHN5031	5/16-18 FHN GR5 ZINC	10
8	SLWZ031	5/16 SPLIT L/W Z	8
9	UFWZ031	5/16 USS F/W Z	6
10	486-040	10HP MOTOR FOR S10 SANDERS	1
11	HHCS037020	3/8-16 X 1-1/4 HHCS GR5 Z	6
12	UFWZ037	3/8 USS F/W Z	8
13	SLWZ037	3/8 SPLIT L/W Z	8
14	FHN5037	3/8-16 FHN GR5 Z	4
15	560-058	SPINDLE PULLEY SHEAVE FOR K20SSF-20HP AND KM20-22/20HP, MOTOR AND SPINDLE PULLEY SHEAVE FOR S10 AND S14 SANDERS	2
16	049-003	MOTOR PULLEY BUSHING FOR FOR K16-18, KM16-18, K20SSF-15, K20RS-15, K20SW-15, KM20-22-15HP, KM20-22W-15, S10D	1
17	291-032	MAIN FRAME FOR S10D SANDER	1
18	044-013	UCF208-24 4 BOLT FLANGE BRG 1-1/2 IN FOR S10, S14 DRIVE PULLEY	2
19	SHCA050032	1/2-13 X 2 SHCS	8
20	SLWZ050	1/2 SPLIT L/W Z	12
21	560-055	DRIVE PULLEY ASSEMBLY FOR S10 SANDERS	1
22	714-005	SLEEVE, YOKE SHAFT FOR S10, S14	1
23	556-047	PLATE, SLEEVE BUSHING FOR S10 AND S14	1
24	HHCS037032	3/8-16 X 2 HHCS GR5 Z	2
25	ZERK012000	1/8-27 X 11/16 STRT LUBE FITTING	1
26	RLB AA-1704-15	AA-1704-15 BRONZE BUSHING 1-1/2 X 1-3/4 X 1	2
27	960-018ASSY	YOKE AND YOKE SHAFT ASSEMBLY FOR 10 INCH SANDERS	1
28	560-054	IDLER PULLEY W BEARINGS FOR S10D SANDERS	1
29	701-042	SPINDLE, IDLER FOR S10D SANDERS	1
30	ROLA031040	5/16 X 2-1/2 ROLL PIN	1
31	041-119	T-BRACKET, FOR CYLINDER PIVOT ON S10D	1
32	151-003	CLEVIS, AIR CYLINDER FOR S10 SANDER	1
33	131-010	2500B-1.50 2.50X1.50 AMERICAN MINI PAK CYLINDER FOR S8, S10 SANDERS	1
34	709-010A	3/8-24 X 1-1/4 STUD FOR S8D SANDERS	1
35	FJNZ038	3/8-24 F H JAM NUT	1
36	696-018	SCREW, LEVELING FOR S14 SANDERS	6
37	FJNZ062	5/8-11 F H JAM NUT Z	6
38	563-025	PLATEN FOR S10D SANDERS	1
39	FSCA037016	3/8-16 X 1 FSHCS	6
40	441-016ASSY	TRACKING KNOB ASSEMBLY FOR S8 AND S10 SANDERS	1
41	SHCA050028	1/2-13 X 1-3/4 SHCS	4
42	049-069	MOTOR AND SPINDLE PULLEY BUSHING FOR S10 AND S14 SANDERS	1
43	051-027	3VX500 V BELT FOR S10HD AND S10HW	4
44	053-009	TRACKING BLOCK- 5/16 THREADED HOLE	2
45	SHCA025016	1/4-20 X 1 SHCS	4
46	HHCS031020	5/16-18 X 1-1/4 HHCS GR 5 Z	2
47	S10-S14FRAMESTANDOFF	FRAME STAND-OFF FOR S10 AND S14 SANDERS	1
48	293-032	WORK STOP FENCE FOR S10 HORIZONTAL SANDERS	1
49	FSCA025016	1/4-20 X 1 FSHCS	2
50	UFWZ025	1/4 USS F/W Z	2
51	SLWZ025	1/4 SPLIT L/W Z	4
52	FHN5025	1/4-20 FHN GR5 Z	2
53	716-012REGBRK	AIR TENSION CYLINDER BRACKET	1
54	HHCS025008	1/4-20 X 1/2 HHCS GR5 Z	2
55	912-014	HVN4200-8 PARKER 1/4 WAY VALVE, 3P ROTARY HAND VALVE	1
56	SHCA025024	1/4-20 X 1-1/2 SHCS	2
57	W169PLP-4-4	W169PLP-4-4 BULK PRESTOLOK 1/4 OD X 1/4 MALE NPT ELBOW	2
58	BM-28	BM-28 1/4 AIR SILENCER	1
59	3400X4	3400X4 BRASS STEEL ELBOW	1
60	02530040BLN	02530040BLN 1/4 X 3 BLACK PIPE NIPPLE	1
61	641-021	P32RB92BNNP PARKER REGULATOR 1/4" 125PSI RELIEVING MODULAR REGULATOR	1
62	18-013-212	18-013-212 1.5- 1/8 CBM-O-160	1
63	342-128A	KNOB HANDLE FOR S8, S10, S14 HORIZONTAL SPLASH GUARD ASSEMBLY AND ACCESS HATCH	1

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	
TOLERANCES:		CHECKED	
FRACTIONAL 1/16 ANGULAR 30°		ENG APPR	
THREE PLACE DECIMAL 1/1000		INFO APPR	
INTERPRET GEOMETRIC TOLERANCES PER ASME Y14.5		G.A.	
COMMENTS:			
NEST ASST	USED ON	FRSH	
APPLICATION	DO NOT SCALE DRAWING		

PROPRIETARY/CONFIDENTIAL

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TITLE: S10 HORIZONTAL DRY SANDER

SIZE: DWG. NO. E S10HD

SCALE: 1:5 WEIGHT: 1

SHEET 1 OF 1