



**Elevation**  
*Packaging & Equipment*

EBS-1001	•	SINGLE ZONE	•	CONTINUOUS BAND SEALER
EBS-2001	•	DUAL ZONE	•	CONTINUOUS BAND SEALER
EBS-3001	•	TRIPLE ZONE	•	CONTINUOUS BAND SEALER

## **OPERATIONS AND OWNERS MANUAL**

### **EBSx001.VER1-11/2023**

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FOR SPARE PARTS OR TECHNICAL QUESTIONS PLEASE CALL:  
402-999-0827

**DANGER!**

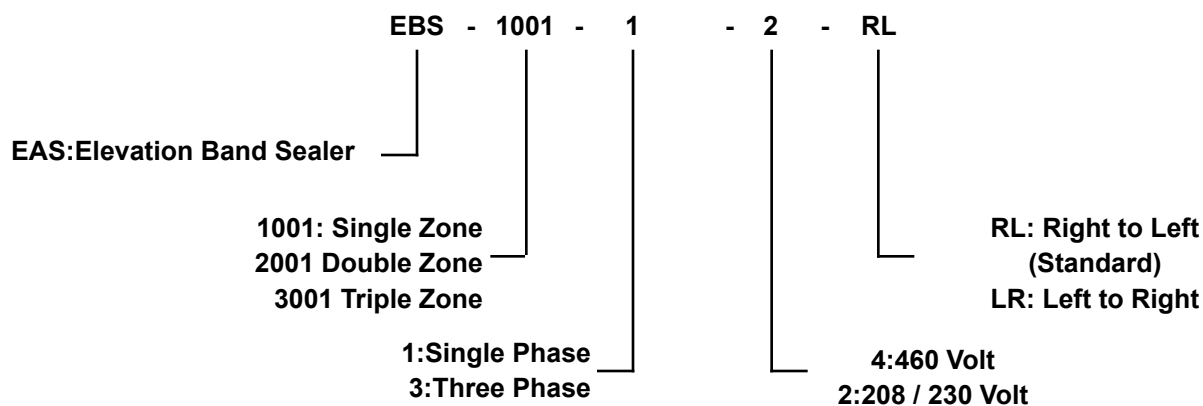
DO NOT ATTEMPT ANY MAINTENANCE OR REPAIRS WHILE MACHINE IS RUNNING OR PLUGGED IN!! THIS COULD CAUSE SERIOUS INJURY OR DAMAGE TO MACHINE!!  
ONLY QUALIFIED PERSONNEL SHOULD PERFORM ELECTRICAL REPAIRS

BE CAREFUL OF INTAKE BELT SECTION - KEEP FINGERS CLEAR OF CARRIER BELTS AND MOVING PARTS WHILE FEEDING BAGS

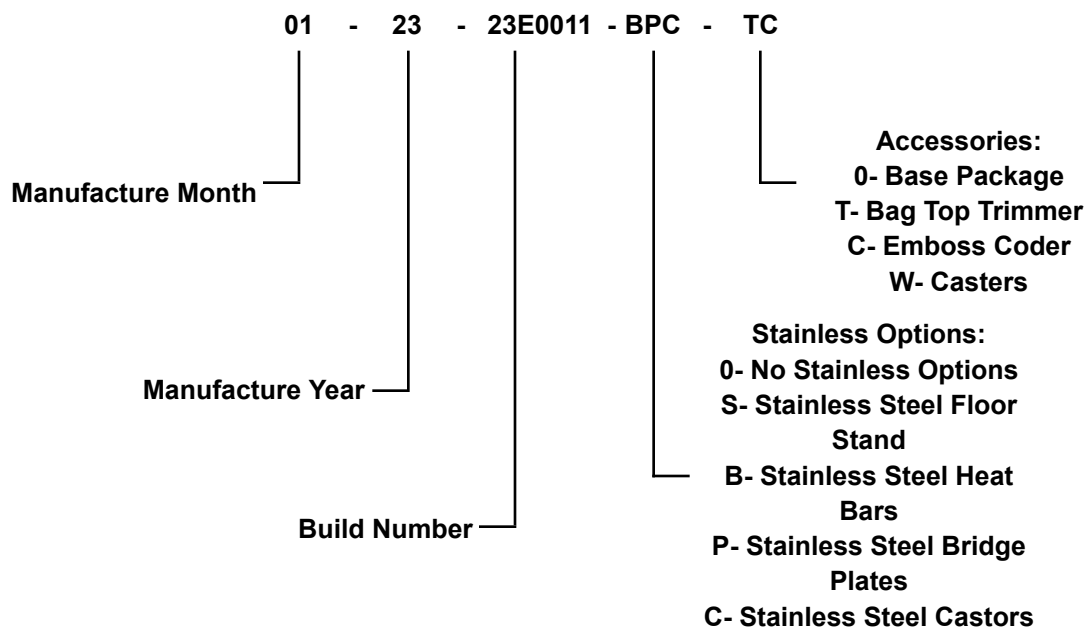
HEATING BARS CAN REACH 500 DEGREES. EXTERIOR SURFACES CAN BECOME HOT - TEST SURFACE BEFORE TOUCHING - DO NOT SET ANYTHING ON TOP OF THE HEATER THAT WILL BLOCK AIR MOVEMENT - DO NOT OPERATE MACHINE WITHOUT COOLING BAR FAN OPERATIONAL

TO PREVENT TIPPING THE UNIT  
AVOID ROLLING OVER UNEVEN SURFACES OR SURFACES WITH A GRADE - UNIT SHOULD BE UNPACKED AT IT'S POINT OF USE AND OPERATED ON A FLAT SURFACE

## Model Number



## Serial Numbers



## **GENERAL OPERATION**

The CBS-DZ-2001 sealer is a two heat / one cool band sealer designed for manual and automatic production runs for sealing a variety of heat sealable materials. The basic operation of the machine is that bags are fed into the in-feed of the machine and carried through the entire machine via a pair of carrier belts. The top portion of the bag is carried through pairs of heat sealing bands which will give your bag a ¼” seal line near the top of the bag. The bag top then is carried through a pair of cooling bars which cool the seal to solidify the sealed bag.

## **INSTALLING THE MACHINE INTO PRODUCTION**

1. Once the machine arrives, un-skid the machine and check for any damage. If any damage has occurred, contact the freight carrier at once.
2. Read the manual carefully and place the machine into the production area
3. Adjust the height of the machine to the desired level.
4. Remove any protective film from surfaces
5. Install the front handle that was shipped with the unit

Wire the machine into the correct electrical service and make sure the machine is connected to the building ground. Failure to ground the machine will increase the risk of shock.



## ELECTRICAL CONTROLS

Have any personnel who may be operating the machine learn the electrical controls. See figure # 1 for control layout.



A 10 turn potentiometer precisely controls carrier belt speed to a fixed setpoint. The operator must adjust to match the conveyor speed.



Main power switch starts the entire sealer



Heat control switch enables or disables the heat



The Watlow 935 or Tempco 220 heat controller precisely controls the air temperature of the heat bars. There are three buttons on the controller: Set, up and down. To change the setpoint, press the set button to view, then the up and down arrows to change. Press both up and down arrows at the same time to return to the actual temperature screen. Refer to the appropriate Tempco or Watlow manual for troubleshooting.



Emergency Stop switch located on the side of the electrical box - This switch will shut down all operations except the cooling fan

## INVERTEK VFD



Press the Octagon to scroll through

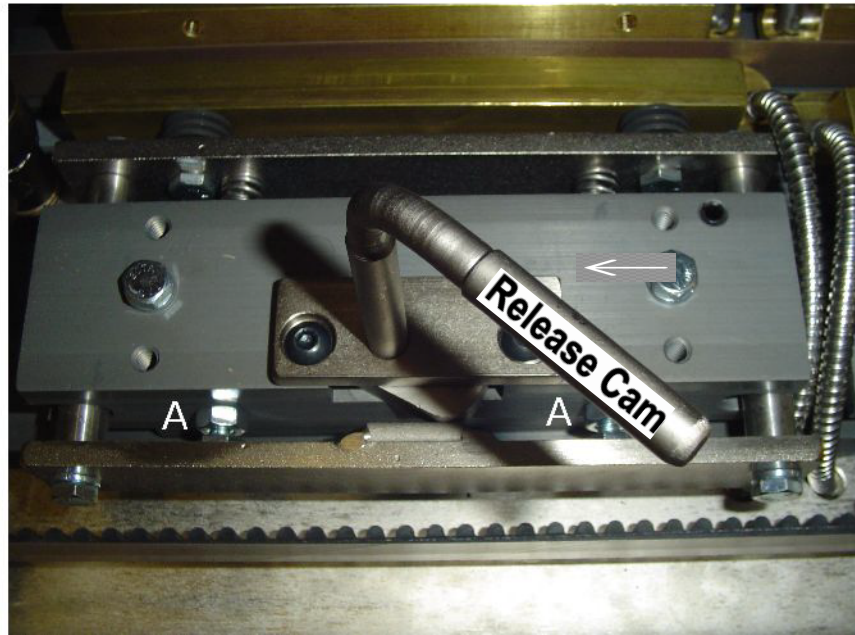
- Frequency
- Motor Speed
- AMPS
- FPM ( c )
- Output Power

The drive will display any faults that occur

Refer to the appropriate Invertek manual for troubleshooting

## COMPONENT OVERVIEW

### HEATING AND COOLING BARS



**FIGURE 1**

The rear or stationary set of heating and cooling bars are set perpendicular to the deck plates at the factory and rarely need to be adjusted. The only adjustments available are made by 2 allen set screws on each rear heat bar mount. Call the factory if you believe these need to be adjusted.

The front set of heat and cool bars are spring loaded to achieve pressure on the bands and bag as it passes between the heat and cool bars. These also control the gap between the front and rear bars. For best performance, the gap must be changed for different bag thicknesses. The machine should arrive pre-adjusted for your bag if samples were sent to the factory. See figure # 1 for details on how to adjust. You may be able to achieve a good seal on multiple thicknesses without adjusting, but that will vary based on material and construction. Testing multiple thicknesses of bags is the responsibility of the customer. Testing can be done upon request at the time of machine completion and finished seals will be sent back to the customer with the finished machine. Different levels of compression springs are available for the machine - contact the factory for information.

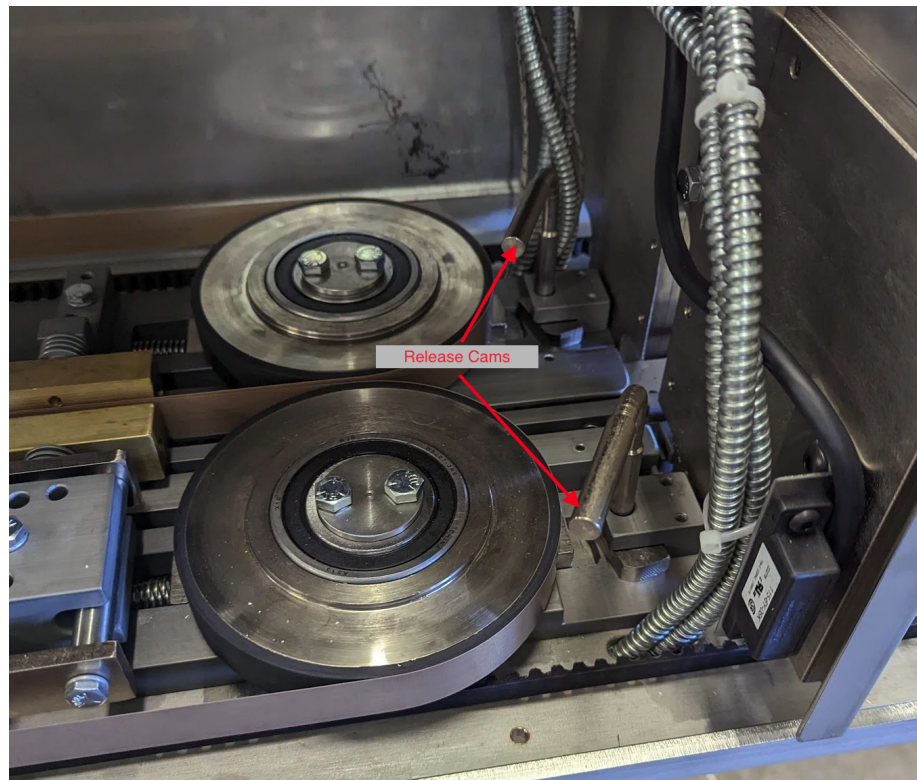
### Heat Bar Gap Adjustment

Adjustments should be made with the sealing bands installed and heat bars are near operating temperature.

- 1) Ensure the band release cam is engaged to the operating position.
- 2) Loosen the nut on the gap adjustment locks (A) - these contain an adjustment screw and a nut secured to the threaded heat bar assy to prevent movement of the gap once set.
- 3) Use a feeler gauge to measure the gap between the heat bars
  - a) When adjusted properly, the teflon bands should slightly grab the feelers gauge, but the gauge should still move with very light force. Applying too much force to move the feelers gauge indicates loaded springs which results in an improper setting.
- 4) Adjust using the gap adjustment bolt to the needed gap per the bag specs
  - a) **Example Adjustment:** 5 mil bag - no gussets
    - Bag thickness  $(.005 \times 2) = .010$
    - Gap setting = .010
    - Gap can be reduced to .008 if needed but this will slightly shorten teflon band lifespan -
    - gap settings below .008 may have a tendency to cause bags to drag against the heat and cool bars which will cause poor appearance and potentially poor seals
- 5) Once finished, lock the setting in place using the gap adjustment lock nut

## BAND WHEELS AND SEAL BANDS

Each machine requires two sets of sealing bands which wear periodically. The band wheels must be aligned so that they are parallel with each other. Alignment should be set at the factory and require no adjustment. Use the following steps to correct any issues encountered.



**FIGURE 2**

!!

Small adjustments to the band wheels can cause the sealing band to drag on edges of the machine. Run the drive at low speeds when checking the band ride. Stop the machine before dragging occurs or damage to the sealing band will occur. Use the release cams to release tension from the band and re-center the band between adjustments as necessary. See Steps Below

**CHANGING THE SEALING BANDS (See Figure 2)**

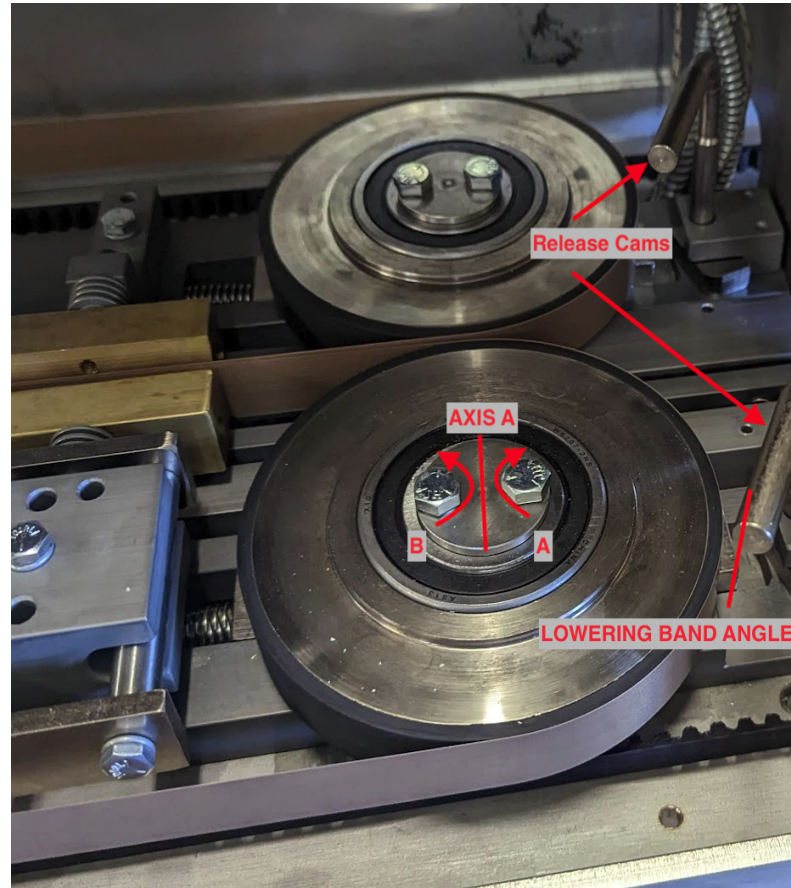
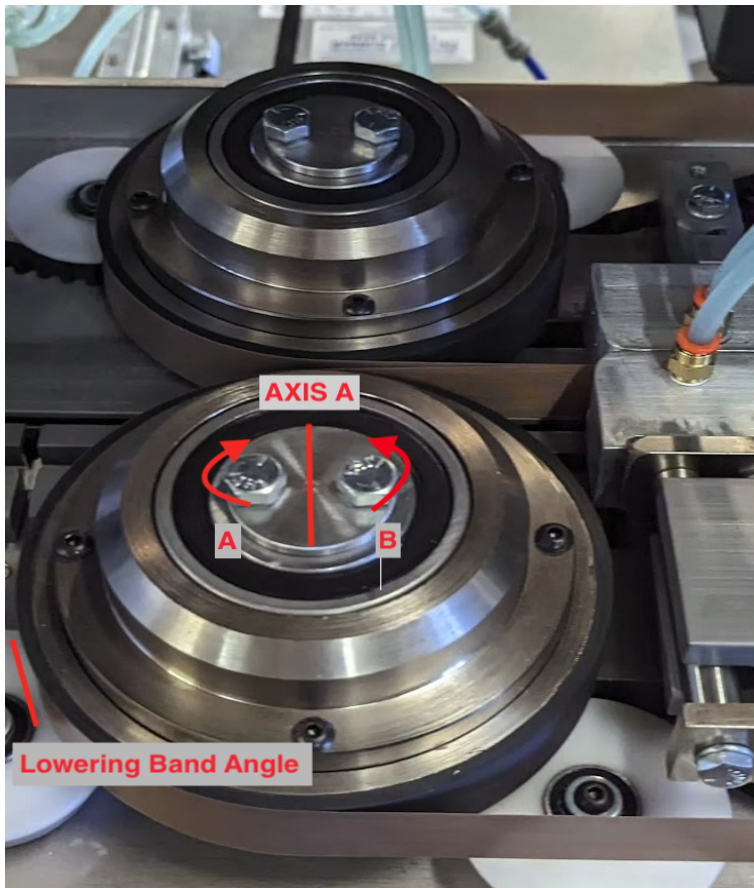
- A. Stop the machine, remove power and follow local safety procedures
- B. Disconnect the cord to the cooling fan (at the rear corner of the cooling fan)
- C. Move the release Cam (FIGURE 2) toward the band wheel to release band tension
- D. Move the release cams for the heating and cooling bars (FIGURE 1) toward the release position
- E. Change the sealing bands - you will need to release compression wheel tension - you do not need to dis-assemble the compression wheel.
- F. Return tension to the band wheel using the release cam
- G. Set the drive to a low speed
- H. Check that the band rides centered on the band wheels. The bands should not extend above or below the band wheels.
- I. If band rides incorrectly - see the following pages for troubleshooting
- J. Once the band rides correctly - release the heating and cooling bar release cams (FIGURE 1) to the operating position
- K. Verify that the band rides correctly
- L. Reinstall the cooling fan cord

Bands wheels rock on a raised hub fulcrum called "Axis A"

The bolts to the left and right of Axis A adjust the resting angle of the band wheel.

SEE FIGURE 3 and FIGURE 4



**FIGURE 3****CORRECTING BANDS THAT RIDE UP ON THE BAND WHEEL (Figure 3)**

- A. Stop the machine and follow local safety procedures
- B. Adjust one band wheel at a time starting with the infeed band wheel
- C. Check to ensure both bolts are snug but not tight.
- D. Loosen the inner bolt B 1/4 turn or less on the band wheel you are adjusting
- E. Tighten the outer bolt A 1/4 turn on the band wheel you are adjusting
- F. Start the drive and check how the sealing band is riding on the band wheel
- G. Repeat as necessary
- H. If the band ride cannot be centered, check the compression wheel and heat bar gaps, as these can interfere with band centering, especially on the discharge band wheel.
- I. Once finished - Equally tighten both A & B to 7 foot pounds ensuring this adjustment does not alter the band ride.
- J. Verify that the band wheel does not rock, rotates smoothly and bands do not ride up or down



FIGURE 4

### CORRECTING BANDS THAT RIDE DOWN ON THE BAND WHEEL (Figure 4)

- A. Stop the machine and follow local safety procedures
- B. Adjust one band wheel at a time starting with the infeed band wheel
- C. Check to ensure both A & B bolts are snug but not tight.
- D. Loosen the inner bolt A 1/4 turn or less on the band wheel you are adjusting
- E. Tighten the outer bolt B 1/4 turn on the band wheel you are adjusting
- F. Start the drive and check how the sealing band is riding on the band wheel
- G. Repeat as necessary
- H. If the band ride cannot be centered, check the compression wheel and heat bar gaps, as these can interfere with band centering, especially on the discharge band wheel.
- I. Once finished - Equally tighten both A & B to 7 foot pounds ensuring this adjustment does not alter the band ride.
- J. Verify there are locknuts present on the band wheel
- K. Verify that the band wheel does not rock, rotates smoothly and bands do not ride up or down



## 6) COMPRESSION WHEELS

The compression wheels ensure the melted plastic layers weld together into a single bonded material.

The gap of the compression wheels should be set slightly smaller than the total gap of the sealing bands and all the smallest area of the bag.

Depending on the material, the thickness of the bag and the number of heat stages, the amount of compression needed will vary.

For bags without gussets It is a good idea to start with .002 compression on the bag

For bags with gussets, the compression should be set to the thinnest layer of the bag.

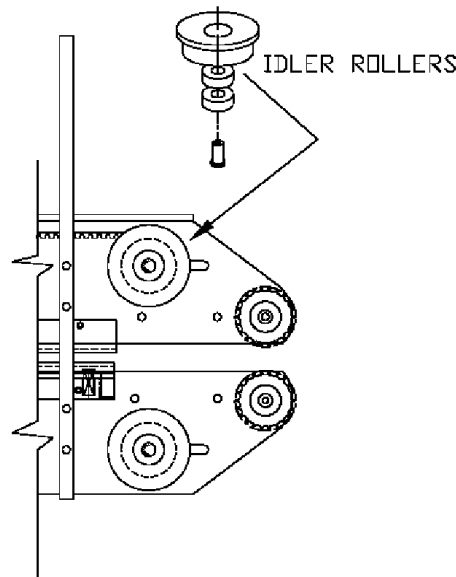
Adjustments should be made with the bands in place.

Prior to testing a bag, the temperature setting should be verified to ensure the bags are hot enough to weld together. Both temperature and compression are critical to providing a good seal.

- **Example Adjustment:** 5 mil bag
  - Bag thickness  $(.005 \times 2) = .010$
  - Thickness at gusseted area = .020
  - Gap setting = .008
  - If the gap setting is too small, it may cause the bags to drag or stretch, increasing the gap setting at .001 increments.
  - If a consistent seal cannot be obtained, contact the factory with your bag specs and setpoint information.
  - bag testing is available at the factory.

## CARRIER BELTS

1. Two continuous 1/2" wide carrier belts are used to carry the
2. bag through the entire machine.
3. Tension is set at the factory and should require no adjustment at start up. Periodic tightening may be necessary.
4. Belt tension adjustment
  - Disconnect power to the machine. Unplug or Lock out equipment.
  - Remove the in-feed guards.
  - Increase belt tension by sliding the idler rollers on the "outside" edges of both base plates.
  - Loosen the button head cap screw holding the idler roller in place and either slide towards the in-feed to increase tension on belts or slide towards the discharge section to decrease tension



5. Removing belt to be changed
  - a. Follow local safety procedures for shut down
  - b. Loosen the idler rollers shown in the picture above
  - c. Remove the front and rear stainless guards.
  - d. Remove the screws holding the rear guard to the deck plates
  - e. Depending on model, the drive gears at the discharge end may need to be loosened to allow belt removal

## **DRIVE SYSTEM**

Motors may vary per machine - refer to the operations manual of the model that is installed on your equipment.

All motors selected are permanently lubricated maintenance free motors - Harsh environments may require additional considerations.

The drive belt is tightened by loosening the four bolts of the gearbox and moving the whole drive assembly along the slotted mounts.

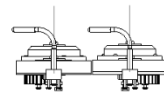
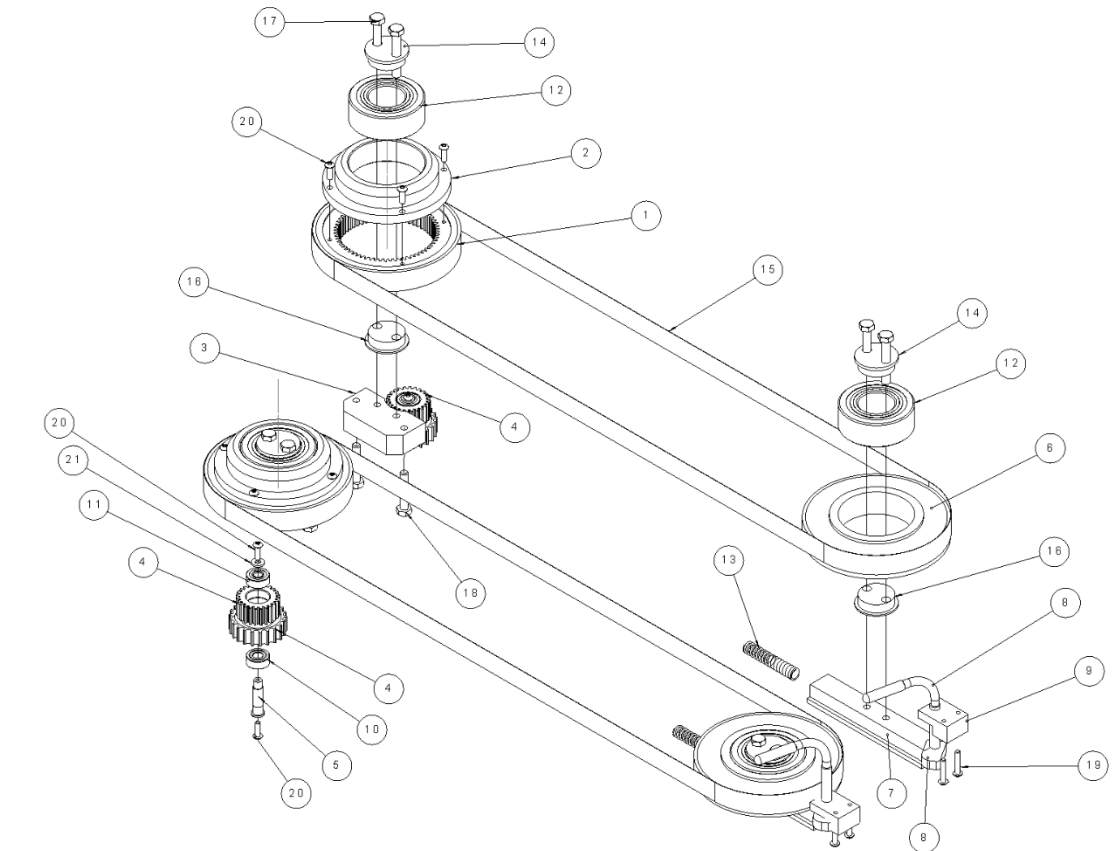
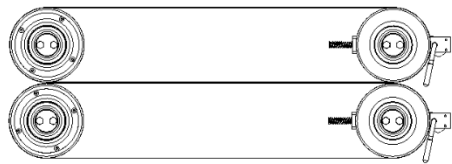
The gearbox is not user serviceable through Elevation Packaging. If repairs are needed, a new gearbox is available through Elevation.

## **ASSEMBLY DRAWINGS**

- 101-00 BANDWHEEL ASSEMBLY
- 102-00 CARRIER BELTS
- 103-00 SEAL ASSEMBLY
- 104-00 FRAME ASSEMBLY
- 105-00 - DRIVE ASSEMBLY
- 107-730 - TYPICAL GUARD PACKAGE

## 101-500 BANDWHEEL ASSEMBLY (1001)

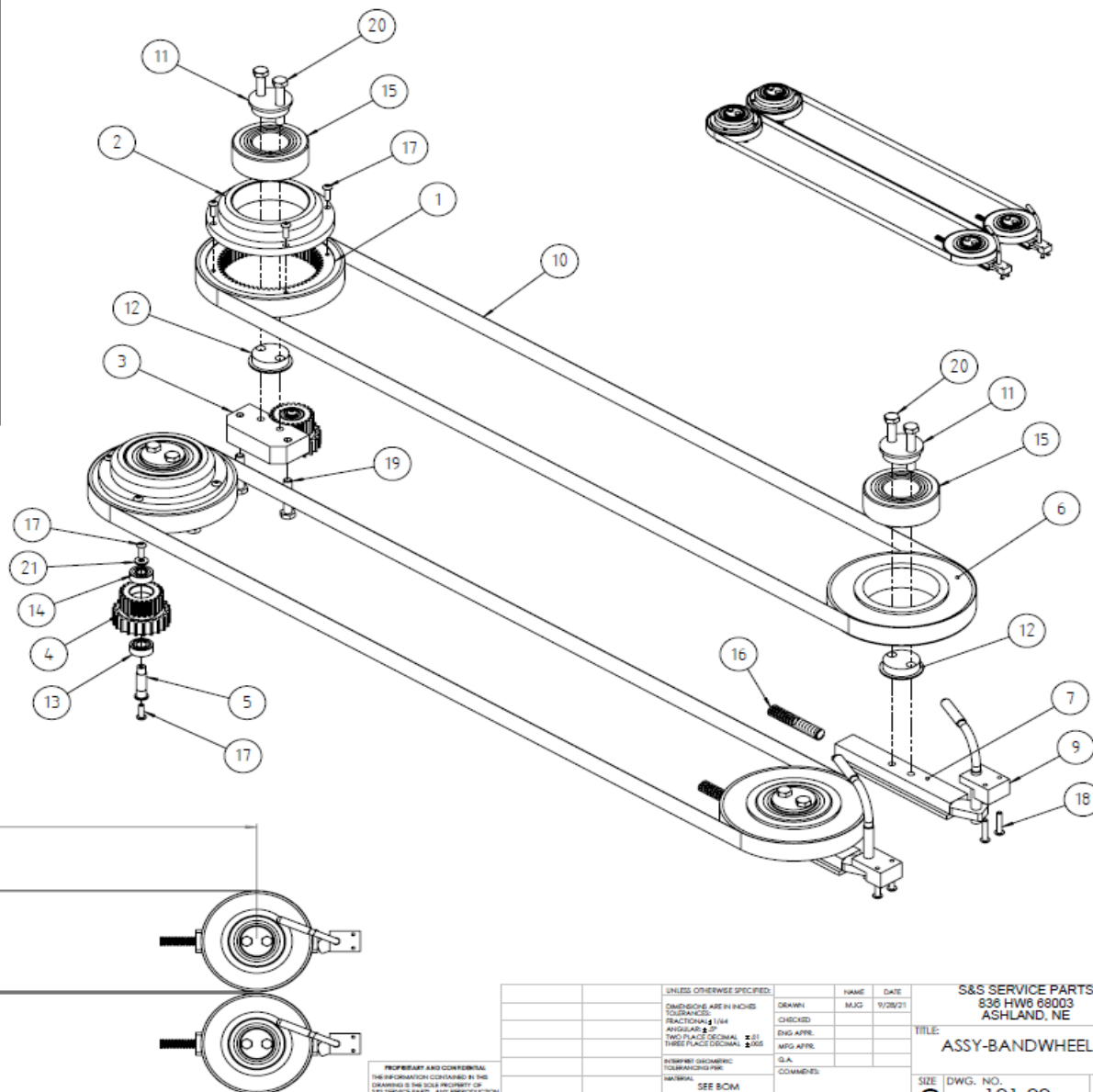
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	101-01	DRIVE BANDWHEEL	2
2	101-02	HUB-BANDWHEEL	2
3	101-03	PLATE-BANDWHEEL MOUNT	2
4	101-04	DRIVE GEAR-BANDWHEEL	2
5	101-05	SHAFT-DRIVE GEAR	2
6	101-06	BANDWHEEL-IDLER	2
7	101-07	MOUNT-IDLER BANDWHEEL	2
8	101-08	CAM-BAND RELEASE	2
9	101-09	CLAMP-RELEASE CAM	2
10	1004-2R5	BRO-BALL .38 X .88 X .34	2
11	1003-2R5	BRO-BALL .31 X .89 X .24	2
12	9828T318	BRO-BALL D&L ROW 35 X 72 X 27	4
13	LC 0420 12 M	SPRING-COMP .063 WIRE .48 OD X 2.5	2
14	101-11	HUB-UPPER	4
15	101-15 BAND SEALING 1H1C	BAND-SEALING 2H1C	2
16	101-12	HUB-LOWER	4
17	92198A691	SCR-HEX HD CAP 5/16-18 X 2.00 SST	8
18	92198A688	SCR-HEX HD CAP 5/16-18 X 1.62 SST	4
19	92949A2 47	SCR-BUTT HD #10-24 X 1.00 SST	4
20	92949A2 44	SCR-BUTT HD #10-24 X .62 SST	12
21	96659A1 04	WASHER-PLAT SAE #10 SST	2



REVISIONS		DATE		BY	
1	INITIALS	DATE	BY	DATE	BY
S&S SERVICE PARTS 400 St. Clair Avenue New Richmond, WI 54017 TEL: 262-661-1111 FAX: 262-661-1112 E-MAIL: S&S@S&S.COM WWW.S&S.COM					
TITLE: ASSY-BAND WHEELS SCALE: 1:10 W/DRAWN: SHEET 1 OF 1					

## 101-00 BANDWHEEL ASSEMBLY (2001)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	101-01	DRIVE BANDWHEEL	2
2	101-02	HUB-BANDWHEEL	2
3	101-03	PLATE-BANDWHEEL MOUNT	2
4	101-04	DRIVE GEAR-BANDWHEEL	2
5	101-05	SHAFT-DRIVE GEAR	2
6	101-06	BANDWHEEL-IDLER	2
7	101-07	MOUNT-IDLER BANDWHEEL	2
8	101-08	CAM-BAND RELEASE	2
9	101-09	CLAMP-RELEASE CAM	2
10	101-10	BAND-SEALING 2H1C	2
11	101-11	HUB-UPPER	4
12	101-12	HUB-LOWER	4
13	900-017	BRG-BALL .38 X .88 X .34	2
14	900-016	BRG-BALL .31 X .88 X .34	2
15	900-057	BRG-BALL DBL ROW 35 X 72 X 27	4
16	900-165	SPRING-COMP .063 WIRE .48 OD X 2.5	2
17	900-121	SCR-BUTT HD #10-24 X .62 SST	12
18	900-122	SCR-BUTT HD #10-24 X 1.00 SST	4
19	900-097	SCR-HEX HD CAP 5/16-18 X 1.62 SST	4
20	900-098	SCR-HEX HD CAP 5/16-18 X 2.00 SST	8
21	900-139	WASHER-FLAT SAE #10 SST	2

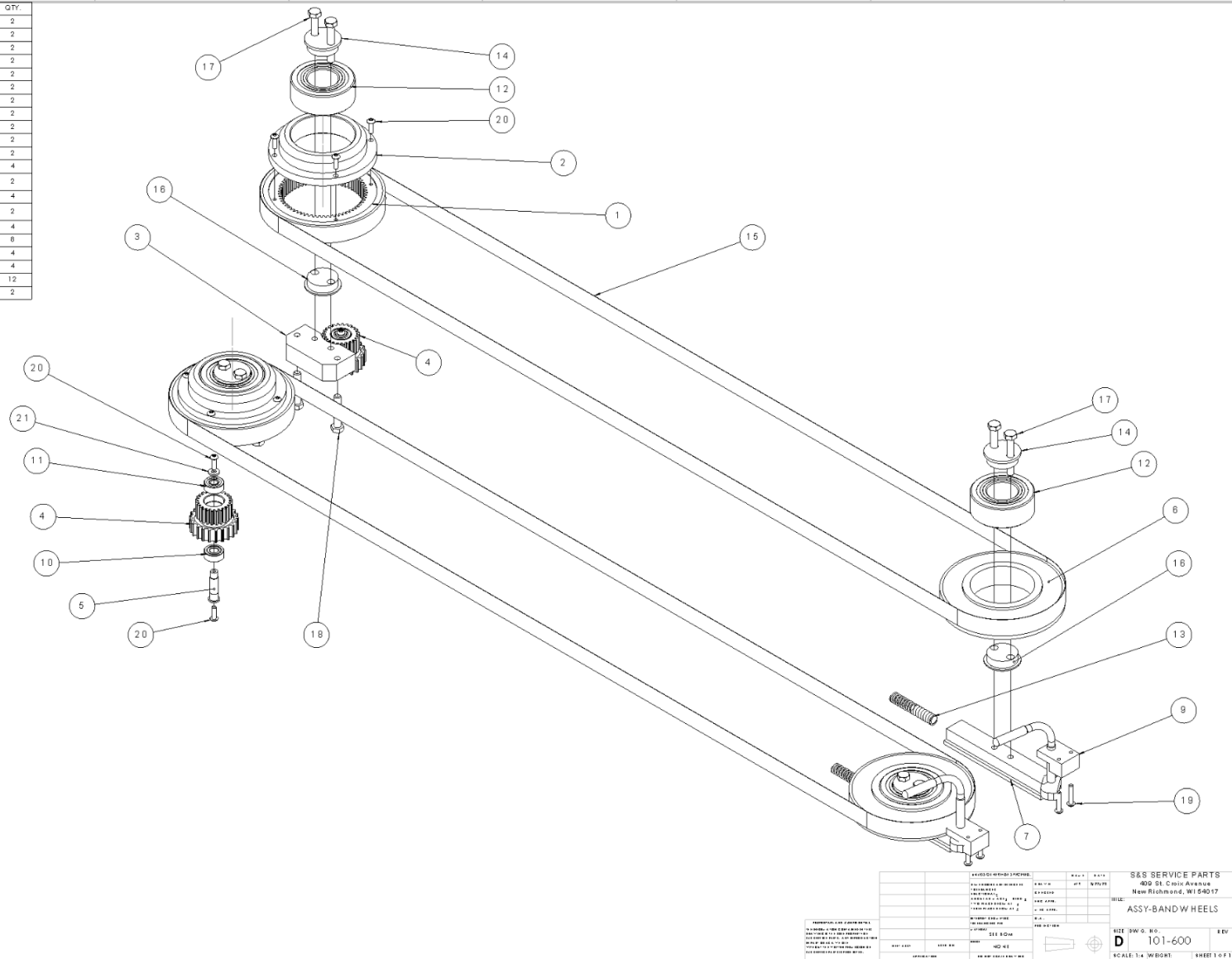


UNLESS OTHERWISE SPECIFIED:		DRAWN		NAME	DATE
DIMENSIONS ARE IN INCHES		CHECKED		MUG	9/28/21
TOLERANCES		ENG APPR			
FRACTIONS 1/16		MFG APPR			
ANGULARS ± 2°		G.A.			
TWO PLACE DECIMAL		COMMENTS			
THREE PLACE DECIMAL					
FOUR PLACE DECIMAL					
TOLERANCES PER					
MATERIAL		SEE BOM			
FINISH		NONE			
NEXT ASSY		USED ON			
APPLICATION		DID NOT SCALE DRAWING			

S&S SERVICE PARTS 838 HWB 68003 ASHLAND, NE			
TITLE: ASSY-BANDWHEELS			
SIZE	DWG. NO.	REV	
C	101-00		
SCALE: 1:3	WEIGHT:	SHEET 1 OF 1	

## 101-600 BANDWHEEL ASSEMBLY (3001)

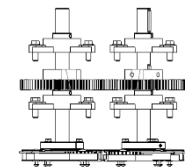
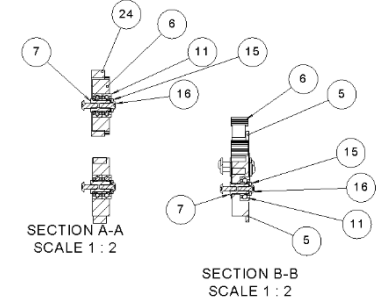
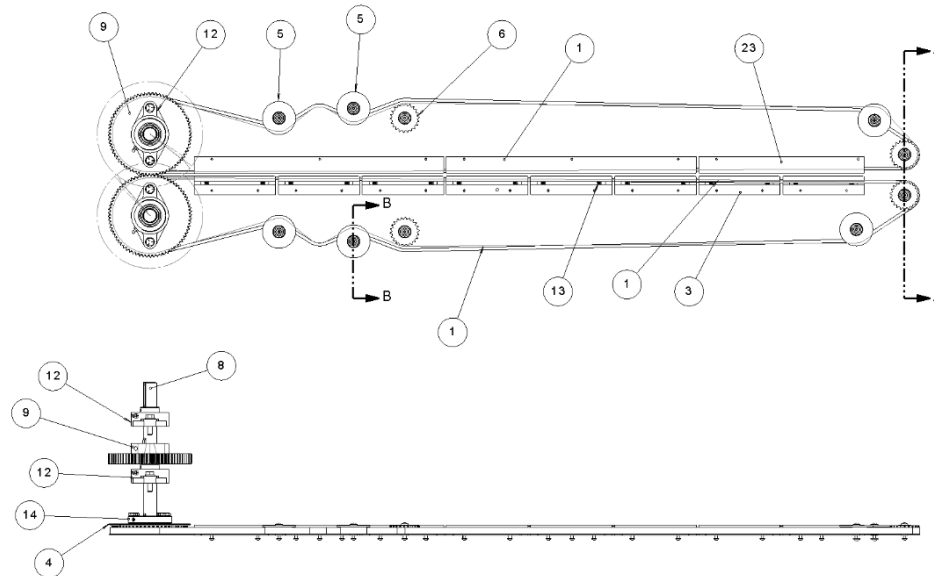
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	101-01	DRIVE BANDWHEEL	2
2	101-02	HUB-BANDWHEEL	2
3	101-03	PLATE-BANDWHEEL MOUNT	2
4	101-04	DRIVE GEAR-BANDWHEEL	2
5	101-05	SHAFT-DRIVE GEAR	2
6	101-06	BANDWHEEL IDLER	2
7	101-07	MOUNT-IDLER BANDWHEEL	2
8	101-08	CAM-BAND RELEASE	2
9	101-09	CLAMP-RELEASE CAM	2
10	1604-2R5	BRG-BALL 38 X .88 X .34	2
11	1603-2R5	BRG-BALL 31 X .88 X .34	2
12	8028T318	BRG-BALL DBL ROW 35 X .72 X .27	4
13	LC 9400 12 M	SPRING-COMP 240 WIRE .40 OD X 2.5	2
14	101-11	HUB-UPPER	4
15	101-20 BAND SEALING 3M1C	BAND-SEALING 2M1C	2
16	101-12	HUB-LOWER	4
17	92198A691	SCR-HEX HD CAP 5/16-18 X 2.00 SST	8
18	92198A688	SCR-HEX HD CAP 5/16-18 X 1.62 SST	4
19	92949A2 47	SCR-BUTT HD #10-24 X 1.00 SST	4
20	92949A2 44	SCR-BUTT HD #10-24 X .62 SST	12
21	96659A1 04	WASHER-FLAT SAE #10 SST	2



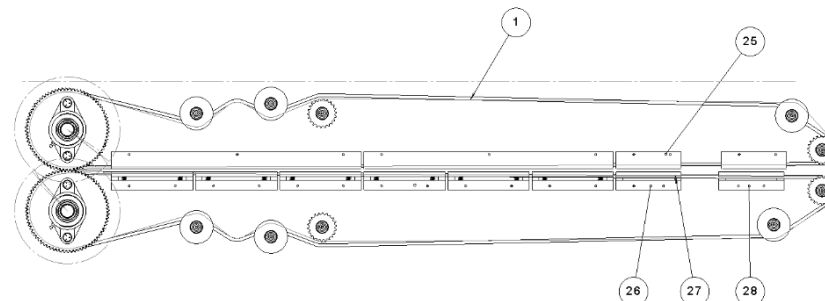
S&S SERVICE PARTS 400 St. Clair Avenue New Richmond, WI 54017	
ASSY-BAND WHEELS	
SIZE 3W G. NO. <b>D</b> 101-600	REV
SCALE 1:1	W/BORT
SHEET 1 OF 1	

## 102-500 CARRIER BELT ASSEMBLY (1001)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	102-01	PRESSURE BAR-STATIONARY	2
2	102-02	PRESSURE BAR-SPRING	6
3	102-03	HOLDER-SPRING BAR	7
4	102-04	PULLEY-DRIVER	2
5	102-05	PULLEY-SMOOTH IDLER	6
6	102-06	PULLEY-22T IDLER	4
7	102-07	SHAFT-DRIVER PULLEY	10
8	102-08	SHAFT-MAIN DRIVE	2
9	102-09	GEAR-MAIN DRIVE	2
10	102-10	HOLDER-SPRING BAR & COMP	1
11	1604-2R5	BRG-BALL .36 X .89 X .34	14
12	SFT-16	BRG-2 BOLT FLANGE 1.00	4
13	SC 642E 15 M	SPRING-COMP .042 WIRE .36 OD X 1.75	16
14	SDS-1.00	RUSHING-SDS 1.00	2
15	W665A104	WASHER-FLAT SAE #10 SST	12
16	22949A242	SCR-BUTT HD #10-24 X .60 SST	20
17	22949A244	SCR-BUTT HD #10-24 X .62 SST	20
18	92147A031	WASHER-LOCK 3/8 SST	8
19	92865A626	SCR-HEX HD CAP 3/8-16 X 1.25 SST	8
20	98870A249	KEY-.25 SQ X 1.75	2
21	98870A239	KEY-.25 SQ X 1.50	1
22	98870A216	KEY-.25 SQ X 1.50	2
23	102-501 SHORT PRESSURE BAR-STATIONARY	PRESSURE BAR-STATIONARY	1
24	3203-BM-12 TIMING BELT	DR RL BELT-TIMING 3600BM12W	2



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
25	102-502 SHORT TRIM PRESSURE BAR-STATIONARY	PRESSURE BAR-STATIONARY	2
26	102-503 SHORT HOLDER SPRING BAR	HOLDER SPRING BAR	1
27	102-504 SHORT PRESSURE BAR-SPRING	PRESSURE BAR-SPRING	2
28	102-505 SHORT HOLDER SPRING BAR	HOLDER SPRING BAR	1



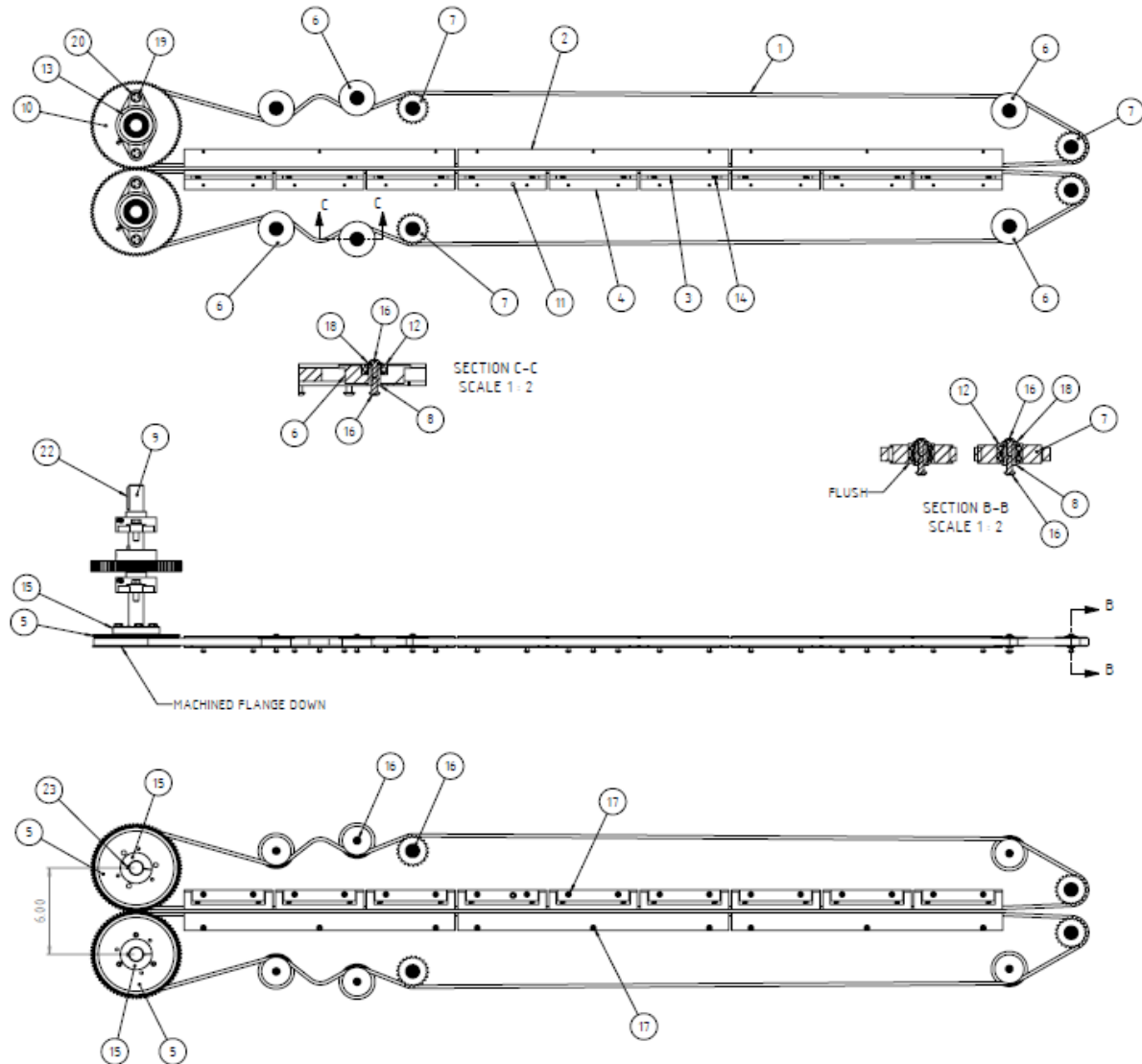
OPTION WITH TRIMMER

S&S SERVICE PARTS 425 St. Croix Avenue New Richmond, WI 54017	
ASSY-CARRIER BELTS	
SIZE: DWG. NO. D 102-500	REV SCALE: 1:1
SHEET 1 OF 1	



## 102-00 CARRIER BELT ASSEMBLY(2001)

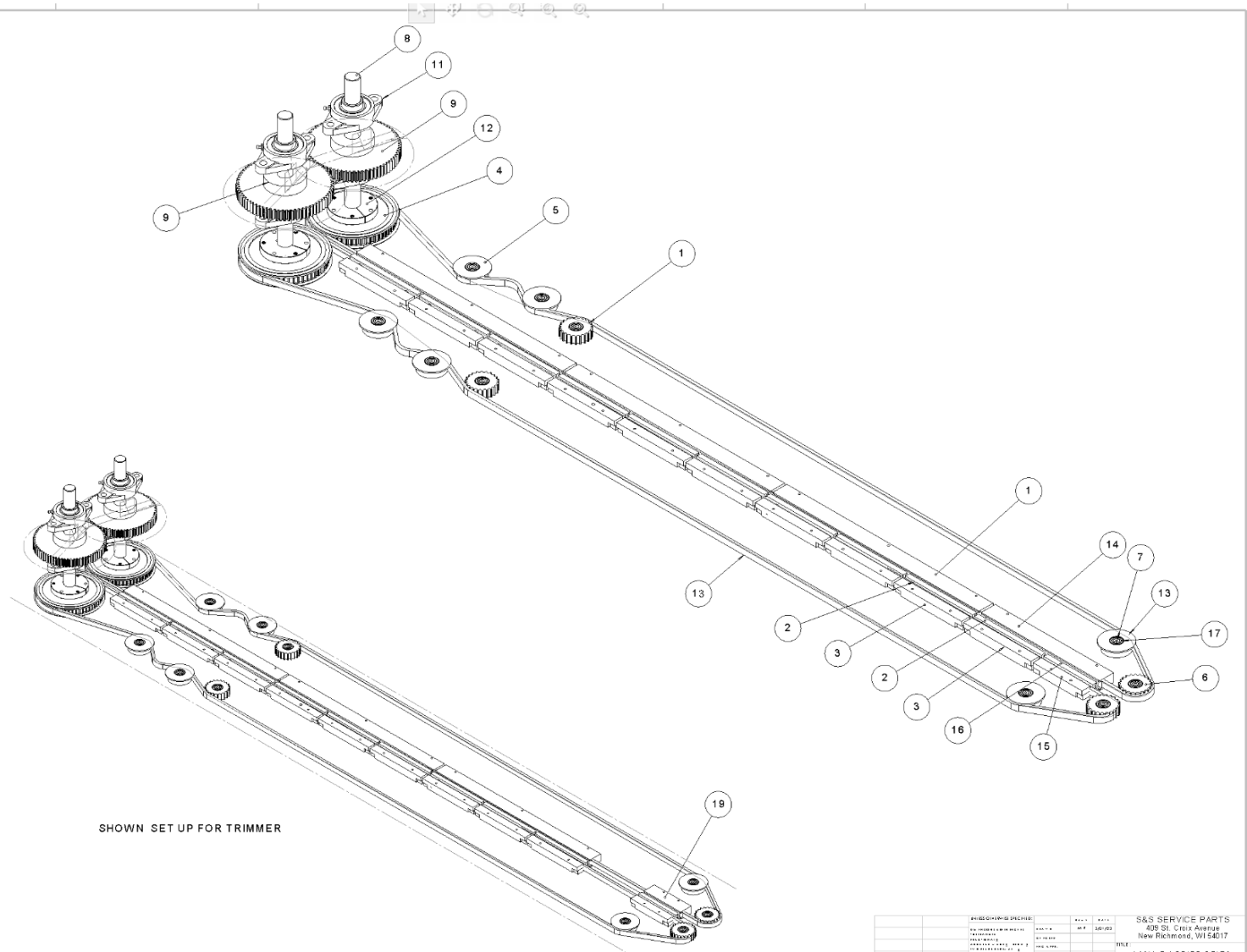
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	900-032	DR RL BELT-TIMING 36008M12W	2
2	102-01	PRESSURE BAR-STATIONARY	3
3	102-02	PRESSURE BAR-SPRING	9
4	102-03	HOLDER-SPRING BAR	8
5	102-04	PULLEY-DRIVER	2
6	102-05	PULLEY-SMOOTH IDLER	6
7	102-06	PULLEY-22T IDLER	4
8	102-07	SHAFT-IdLER PULLEY	10
9	102-08	SHAFT-MAIN DRIVE	2
10	102-09	GEAR-MAIN DRIVE	2
11	102-10	HOLDER-SPRING BAR @ COMP	1
12	900-017	BRG-BALL 38 X 88 X 34	14
13	900-192	BRG-2 BOLT FLANGE 1.00	4
14	900-162	SPRING-COMP .042 WIRE 38 OD X 1.75	18
15	900-191	BUSHING-SDS 1.00	2
16	900-120	SCR-BUTT HD #10-24 x .50 SST	20
17	900-121	SCR-BUTT HD #10-24 x .62 SST	27
18	900-139	WASHER-FLAT SAE #10 SST	12
19	900-114	SCR-HEX HD CAP 3/8-16 x 1.25 SST	8
20	900-085	WASHER-LOCK 3/8 SST	8
21	900-144	KEY-.25 SQ X 1.75	2
22	900-143	KEY-.25 SQ X 1.50	1
23	900-142	KEY-.25 SQ X 1.50	2



S&S SERVICE PARTS 838 HWY 68003 ASHLAND, NE	
TITLE: ASSY-CARRIER BELTS	
SHEET NO. 102-00	REV
SCALE: 1/4" = 1"	SHEET 1 OF 1

## 102-600 CARRIER BELTS (3001)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	102-01	PRESSURE BAR-STATIONARY	3
2	102-02	PRESSURE BAR-SPRING	10
3	102-03	HOLDER-SPRING BAR	9
4	102-04	PULLEY-DRIVER	2
5	102-05	PULLEY-SMOOTH IDLER	6
6	102-06	PULLEY-22T IDLER	4
7	102-07	SHAFT-IDLER PULLEY	10
8	102-08	SHAFT-MAIN DRIVE	2
9	102-09	GEAR-MAIN DRIVE	2
10	102-10	HOLDER-SPRING BAR & COMP	1
11	ST-14	BRG-2 BOLT FLANGE 1.00	4
12	SDS-1.00	BUSHING-SDS 1.00	2
13	2900-RM-12 BELT	DR EL BELT-TIMING 3600BM12W	2
14	102-601 SHORT PRESSURE BAR STATIONARY	PRESSURE BAR- STATIONARY	1
15	102-602 HOLDER SPRING BAR	HOLDER-SPRING BAR	1
16	102-603 PRESSURE BAR- SPRING	PRESSURE BAR-SPRING	1
17	1804-2RS	BRG-BALL .38 X .88 X .34	10
18	LC 042E 15 M	SPRING-COMP .042 WIRE .38 OD X 1.75	22
19	102-604	PRESSURE BAR STATIONARY W/TRIMMER	1

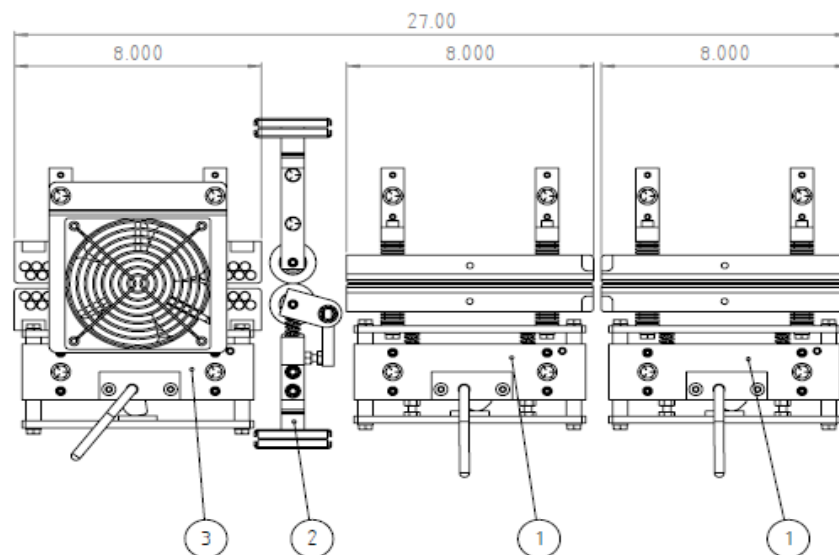


SHOWN SET UP FOR TRIMMER

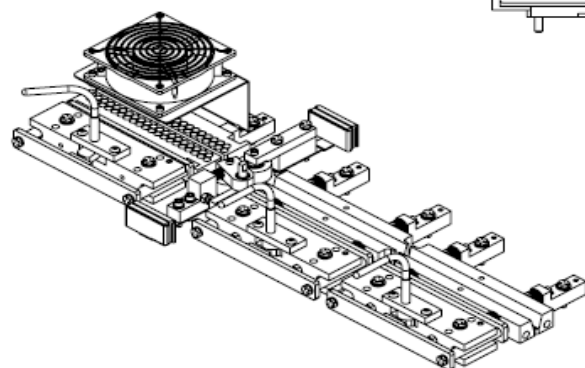
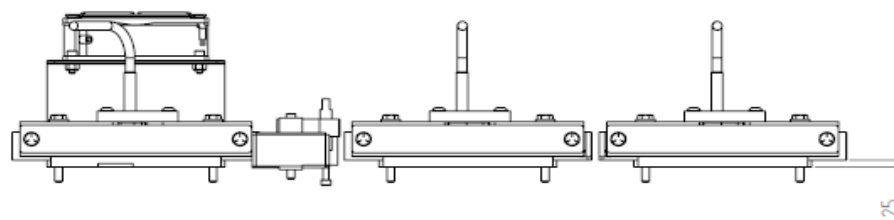
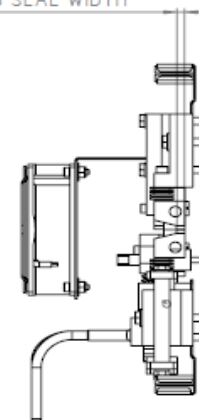
S&S SERVICE PARTS 405 St. Croix Avenue New Richmond, WI 54017	
ASSY-CARRIER BELTS	
SIZE: DWD NO.	102-600
SCALE: 1:1	WELDING
SHEET 1 OF 1	

## 103-00 SEAL ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	103-100	ASSY-HEAT BAR-.25 FACE	2
2	103-101	ASSY-COMPRESSION ROLLER	1
3	103-102	ASSY-COOL BAR	1



.25 SEAL WIDTH



PROPRIETARY AND CONFIDENTIAL  
THE INFORMATION CONTAINED IN THIS  
DRAWING IS THE SOLE PROPERTY OF  
S&S SERVICE PARTS. ANY REPRODUCTION  
IN PART OR AS A WHOLE WITHOUT  
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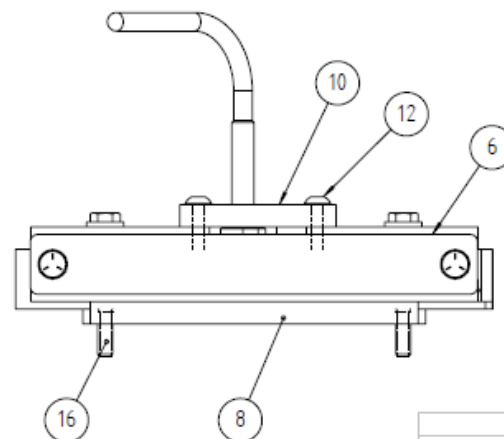
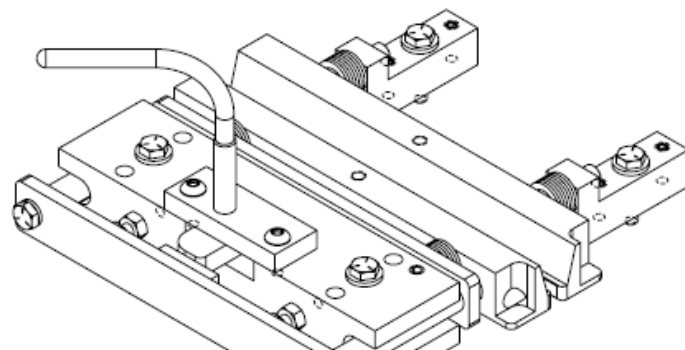
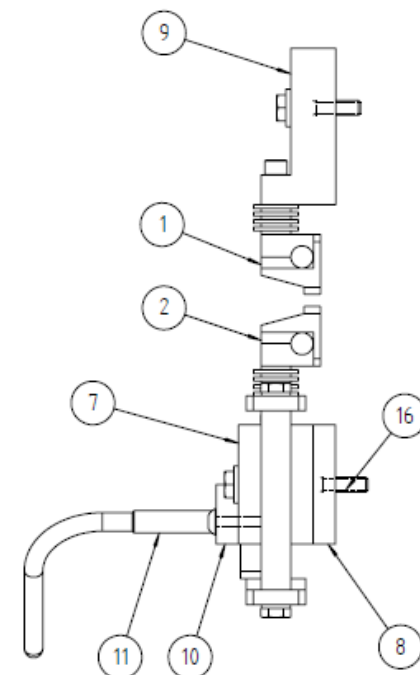
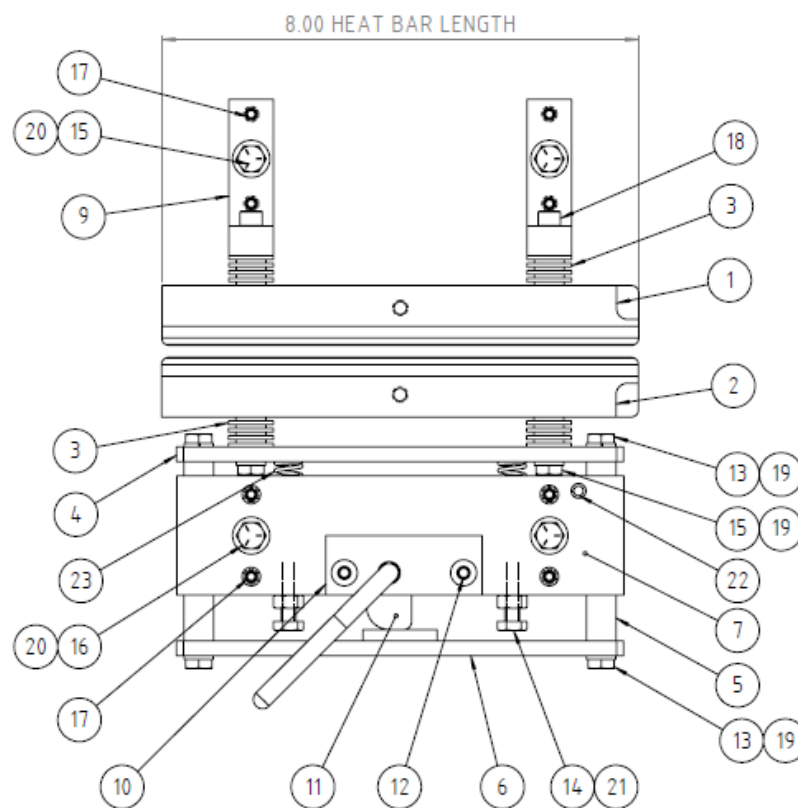
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	S&S SERVICE PARTS	
DIMENSIONS ARE IN INCHES		DRAWN	MJG	9/23/21	836 HW6 68003
TOLERANCES:		CHECKED			ASHLAND, NE
FRACTIONAL: 1/64		ENG APPR.			TITLE:
ANGULAR: 30°		MFG APPR.			ASSY-SEAL SECTION 2H1C
TWO PLACE DECIMAL: .01		G.A.			SIZE
THREE PLACE DECIMAL: .005		COMMENTS:			C
DIMENSIONAL TOLERANCING PER:					DWG. NO.
ASME Y14.5					103-00
SEE BOM					REV
NONE					
NEXT ASY	USED ON				SCALE: 1:3
APPLICATION	DO NOT SCALE DRAWING				WEIGHT:
					SHEET 1 OF 1

# EBS-1001

# EBS-2001

# EBS-3001

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	103-104	HEAT BAR-1/4" FACE (L)	1
2	103-01	HEAT BAR-1/4" FACE (R)	1
3	103-02	SPACER-HEAT BAR	4
4	103-20	CROSS BAR	1
5	103-21	SLIDE SHAFT	2
6	103-22	WELDMENT-STOP BAR	1
7	103-23	SUPPORT BLOCK	1
8	103-25	SPACER	1
9	103-26	BRKT-STATIONARY BAR	2
10	103-39	HOLDER-RELEASE CAM	1
11	101-08	CAM-BAND RELEASE	1
12	92949A540	SCR-BUTTON 1/4-20 X .75 SST	2
13	92865A540	SCR-HEX HD CAP 1/4-20 X .75	4
14	92240A542	SCR-HEX HD CAP 1/4-20 X 1.00 SST	2
15	91247A544	SCR-HEX HD CAP 1/4-20 X 1.25	4
16	92198A551	SCR-HEX HD CAP 1/4-20 X 2.25 SST	2
17	92311A540	SCR-SET 1/4-20 X .75 SST	8
18	92196A546	SCR-SOC HD CAP 1/4-20 X 1.50SST	2
19	92147A029	WASHER-LOCK 1/4 SST	6
20	91950A029	WASHER-FLAT SAE 1/4 SST	4
21	91845A029	NUT-HEX FULL 1/4-20 SST	2
22	92373A373	PIN-SPRING Ø.25 X 1.25	1
23	LC 063G 12 M	SPRING-COMP .063 WIRE .48 OD x 2.5	2

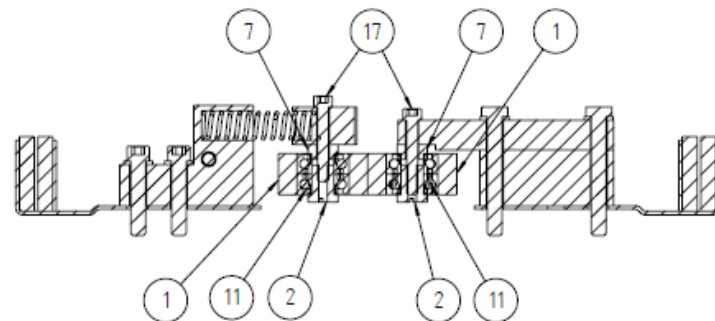
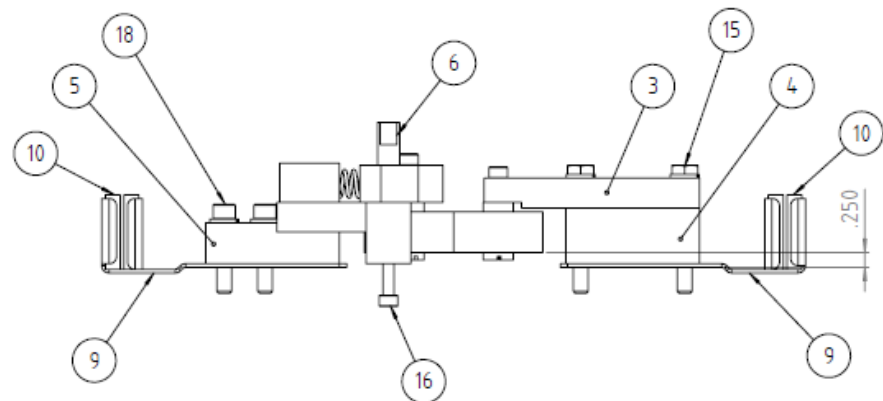
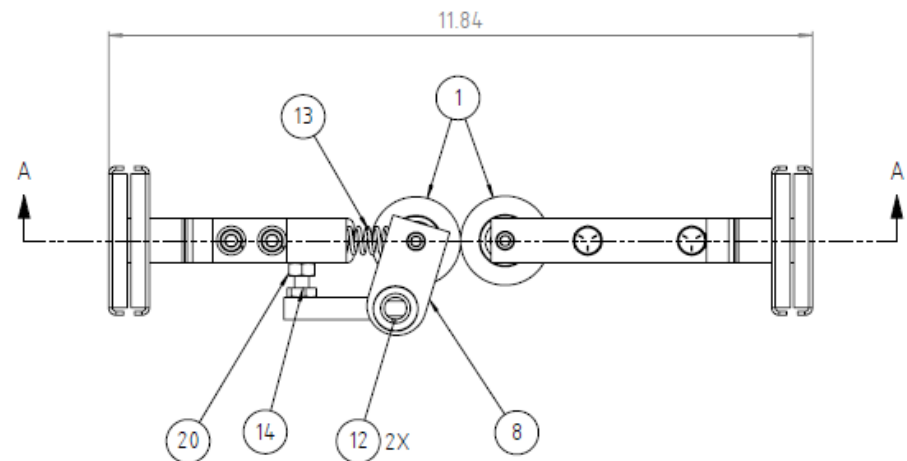
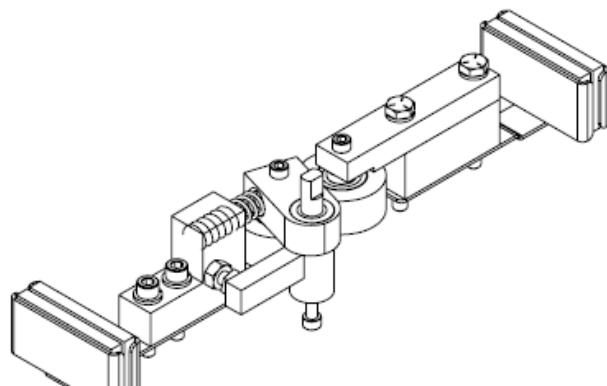
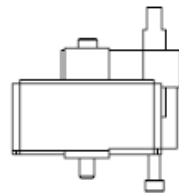


# EBS-1001

# EBS-2001

# EBS-3001

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	103-27	COMPRESSION ROLLER	2
2	103-28	SHAFT-COMP ROLLER	2
3	103-29	BRKT-STATIONARY COMP ROLLER	1
4	103-30	SPACER	1
5	103-31	SPRING POST	1
6	103-32	PIVOT POST-COMP ROLLER	1
7	103-33	SLEEVE-COMP ROLLER	2
8	103-34	WELDMENT-PIVOT ARM	1
9	103-106	HOLDER-BAND WIPER	2
10	103-107	FELT PAD F5	4
11	900-017	Bearing	4
12	900-223	Brg-sleeve	2
13	900-165	SPRING-COMP .063 WIRE .48 OD x 2.5	1
14	900-101	Screw	1
15	900-095	Screw	2
16	900-088	Screw	1
17	900-089	SCR-SOC HD CAP #10-24 X 1.25 SST	2
18	900-092	Screw	2
19	900-084	WASHER-LOCK 1/4 SST	4
20	900-084	Washer - Lock	1
21	102-10	HOLDER-SPRING BAR @ COMP	1

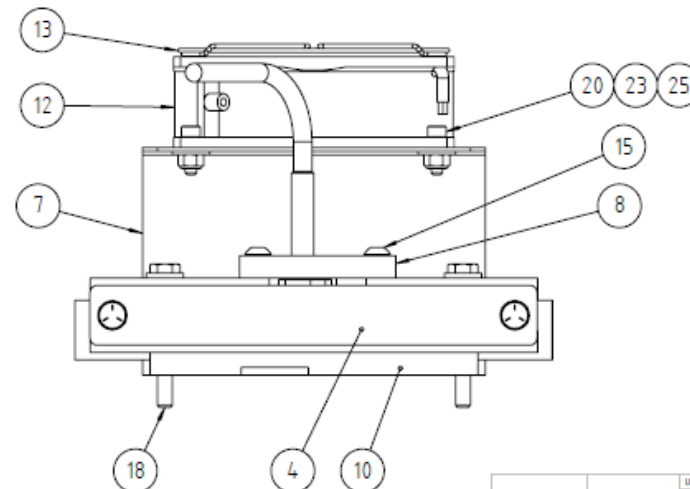
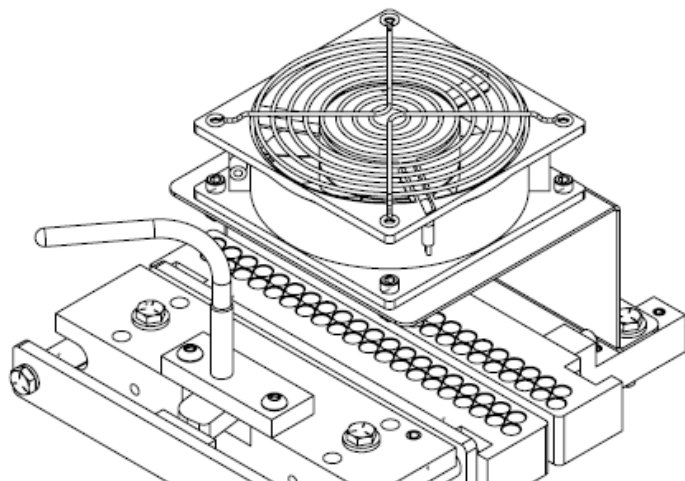
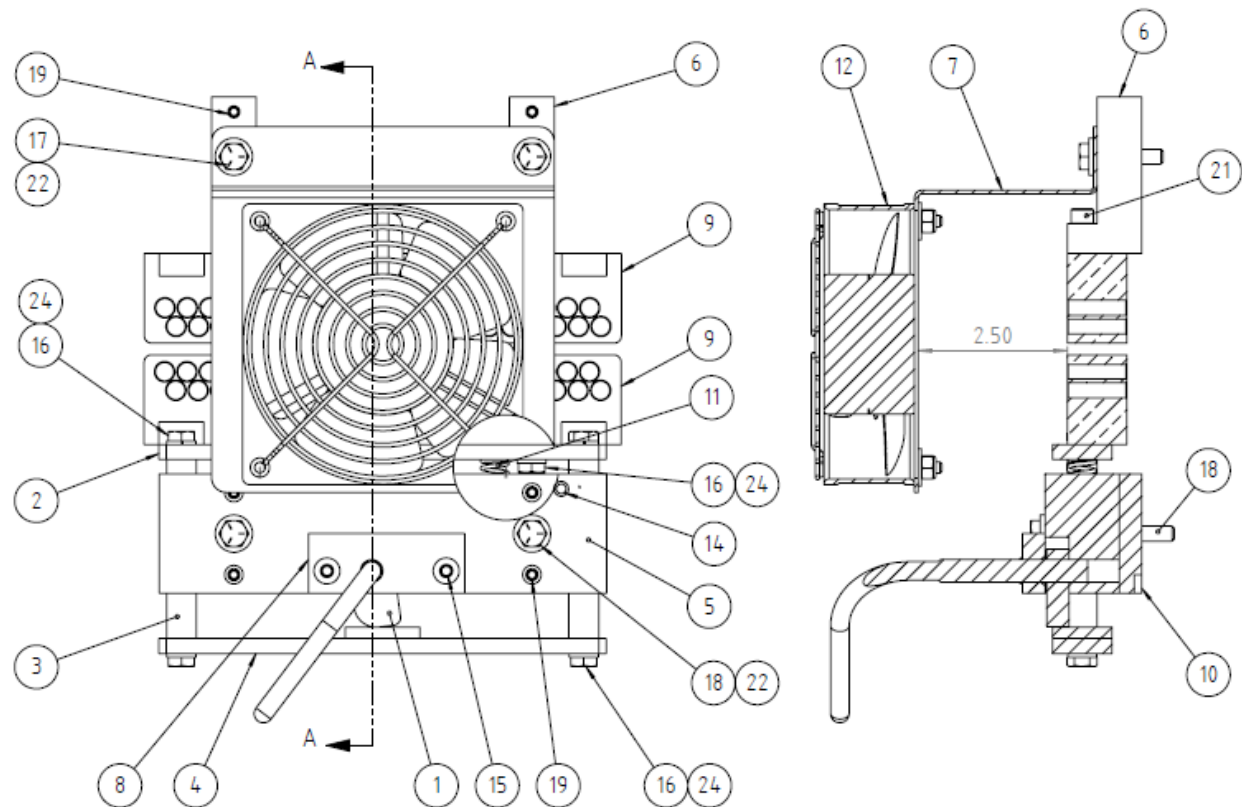


SECTION A-A



BOM Table

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	101-08	CAM-BAND RELEASE	1
2	103-20	CROSS BAR	1
3	103-21	SLIDE SHAFT	2
4	103-22	WELDMENT-STOP BAR	1
5	103-23	SUPPORT BLOCK	1
6	103-26	BRKT-STATIONARY BAR	2
7	103-35	AIR CHUTE	1
8	103-39	HOLDER-RELEASE CAM	1
9	103-103	AIR COOL BAR-DRILLED	2
10	103-105	SPACER-COOL BAR	1
11	LC 063G 12 M	SPRING-COMP .063 WIRE .48 OD x 2.5	2
12	900-136	FAN-COOLING	1
13	900-022	FAN GUARD	1
14	92373A373	PIN-SPRING Ø.25 X 1.25	1
15	92949A540	SCR-BUTTON 1/4-20 X .75 SST	2
16	92865A540	SCR-HEX HD CAP 1/4-20 X .75	6
17	91247A544	SCR-HEX HD CAP 1/4-20 X 1.25	2
18	92198A551	SCR-HEX HD CAP 1/4-20 X 2.25 SST	2
19	92311A540	SCR-SET 1/4-20 X .75 SST	8
20	92196A244	SCR-SOC HD CAP #10-24 X .62 SST	4
21	92196A541	SCR-SOC HD CAP 1/4-20 X .88 SST	2
22	91950A029	WASHER-FLAT SAE 1/4 SST	4
23	92141A029	WASHER-FLAT SST 1/4	4
24	92147A029	WASHER-LOCK 1/4 SST	6
25	91831A011	NUT-HEX NYLON LOCKING #10-24 SST	4



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

NAME

DATE

DRAWN

MUG

9/14/21

S&amp;S SERVICE PARTS

409 St. Croix Avenue

New Richmond, WI 54017



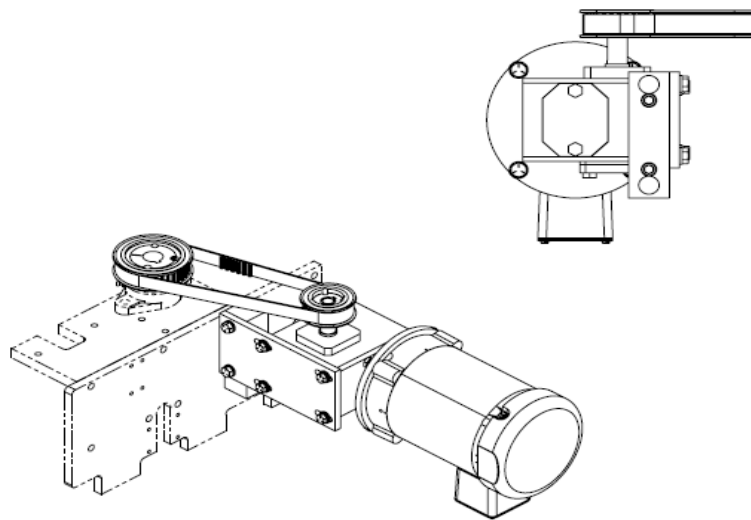
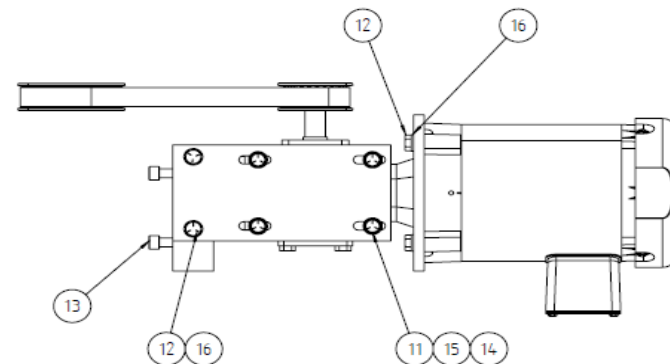
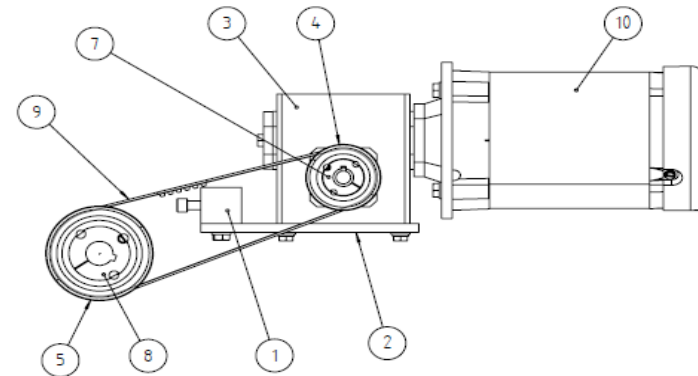






## 105-00 DRIVE ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	105-01	POST-DRIVE	1
2	105-02	PLATE-REDUCER MOUNTING	1
3	900-155	REDUCER-GEAR BMQ-815	1
4	900-185	PULLEY-TIMING 24T POWERGRIP	1
5	900-188	PULLEY-TIMING 36T POWERGRIP	1
6	900-052	BELT-TIMING 720-8MGT-20	1
7	900-198	BUSHING-TL1108 .750	1
8	900-200	BUSHING-TL1610-1.00	1
9	900-052	BELT-TIMING 720-8MGT-20	1
10	900-207	MOTOR-.50 208-230/460 1720 RPM	1
11	900-110	SCR-HEX HD CAP 5/16-18 X 1.00	4
12	900-113	SCR-HEX HD CAP 3/8-16 X 1.00	6
13	900-094	SCR-SOC HD CAP 3/8-16 X 1.00 SST	2
14	900-061	WASHER-FLAT SAE 5/16	4
15	900-083	WASHER-LOCK 5/16 SST	4
16	900-085	WASHER-LOCK 3/8 SST	6



UNLESS OTHERWISE SPECIFIED:		NAME	DATE	S&S SERVICE PARTS 836 HWY 68003 ASHLAND, NE	
CONSTRUCTIONS ARE IN INCHES	DRAWN	MJG	9/27/21	TITLE: ASSY-MAIN DRIVE	
TOLERANCES	CHECKED			SIZE DWG. NO. REV	
PERIODICITY 1/16	ENG APPR.			C 105-00	
ANGULAR 1/16	MFG APPR.			SCALE: 1:3 WEIGHT: SHEET 1 OF 1	
TWO PLACE DECIMAL 1/16	G.A.				
THREE PLACE DECIMAL 1/16	COMMENTS:				
NUMERICAL DECIMAL TOLERANCES PER					
NATURAL	SEE BOM				
REVISION	NONE				
APPROVAL	DO NOT SCALE DRAWING				

## Electrical components

900-167	SOLID STATE RELAY 208/230 VOLT
900-171	480 / 220 TRANSFORMER
900-172	NO CONTACT BLOCK 2.2 MOUNTING BASE 10A
900-173	SELECTOR SWITCH 22MM MAINT 1NO 10A
900-174	DOOR SAFETY SWITCH
900-175	SPEED POTENTIOMETER
900-176	SPEED POTENTIOMETER KNOB
900-179	1 1/4 X 1 5/8 WIRE DUCT
900-180	WIRE DUCT CAP
900-211	THERMOCOUPLE
900-212	TEMPCO HEAT CONTROLLER
900-216	ENCLOSURE
900-217	ENCLOSURE SUBPANEL
900-218	CONTROL ENCLOSURE
900-219	CONTROL ENCLOSURE SUBPANEL
900-226	4 POLE TB345 SP
900-229	VFD - input 3ph 480V, 1HP motor
900-230	VFD - input 1ph 240V, 1HP motor
900-231	VFD - input 3ph 240V, 1HP motor
900-240	LABEL - LIVE ELECTRICAL 1.25 x 3
900-242	EMERGENCY STOP DECAL
900-243	EMERGENCY STOP PUSHBUTTON MAINTAINED TWIST RELEASE NO DECAL
900-248	3KVA TRANSFORMER 480/208 WYE 3 PH