MDWS Secondary Belt Cleaner

Installation, Operation & Maintenance Manual





Serial Number:	
Purchase Date:	
Purchased From:	
Installation Date:	

Serial number information can be found on the Serial Number Label included in the Information Packet found in the cleaner carton.

This information will be helpful for any future inquiries or questions about belt cleaner replacement parts, specifications or troubleshooting.

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1.1 General Introduction

We at Flexco are very pleased that you have selected a Belt Cleaner for your conveyor system.

This manual will help you to understand the operation of this product and assist you in making it work up to its maximum efficiency over its lifetime of service.

It is essential for safe and efficient operation that the information and guidelines presented be properly understood and implemented. This manual will provide safety precautions, installation instructions, maintenance procedures and troubleshooting tips.

If, however, you have any questions or problems that are not covered, please contact your field representative or our Customer Service Department:

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Customer Service: 1-800-541-8028
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Visit www.flexco.com for other Flexco locations and products.

Please read this manual thoroughly and pass it on to any others who will be directly responsible for installation, operation and maintenance of this cleaner. While we have tried to make the installation and service tasks as easy and simple as possible, it does however require correct installation and regular inspections and adjustments to maintain top working condition.

1.2 User Benefits

Correct installation and regular maintenance will provide the following benefits for your operation:

- Reduced conveyor downtime
- Reduced man-hour labor
- Lower maintenance budget costs
- Increased service life for the belt cleaner and other conveyor components

1.3 Service Option

The MDWS DryWipe Secondary Cleaner is designed to be easily installed and serviced by your on-site personnel. However, if you would prefer complete turn-key factory service, please contact your local Flexco Field Representative.

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Before installing and operating the MDWS DryWipe Secondary Cleaner, it is important to review and understand the following safety information.

There are set-up, maintenance and operational activities involving both stationary and operating conveyors. Each case has a safety protocol.

2.1 Stationary Conveyors

The following activities are performed on stationary conveyors:

- Installation
- Blade replacement
- Tension adjustments Cleaning

A DANGER

It is imperative that OSHA/MSHA Lockout/Tagout (LOTO) regulations, 9 CFR 1910.147, be followed before undertaking the preceding activities. Failure to use LOTO exposes workers to uncontrolled behavior of the belt cleaner caused by movement of the conveyor belt. Severe injury or death can result.

Before working:

- Lockout/Tagout the conveyor power source
- Disengage any takeups
- Clear the conveyor belt or clamp securely in place

A WARNING

Use Personal Protective Equipment (PPE):

- Safety eyewear
 - Hardhats

Repairs

Safety footwear

Close quarters, springs and heavy components create a worksite that compromises a worker's eyes, feet and skull. PPE must be worn to control the foreseeable hazards associated with conveyor belt cleaners. Serious injuries can be avoided.

2.2 Operating Conveyors

There are two routine tasks that must be performed while the conveyor is running:

- Inspection of the cleaning performance
- Dynamic troubleshooting

A DANGER

Every belt cleaner is an in-running nip hazard. Never touch or prod an operating cleaner. Cleaner hazards cause instantaneous amputation and entrapment.

A WARNING

Belt cleaners can become projectile hazards. Stay as far from the cleaner as practical and use safety eyewear and headgear. Missiles can inflict serious injury.

A WARNING

Never adjust anything on an operating cleaner. Unforseeable belt projections and tears can catch on cleaners and cause violent movements of the cleaner structure. Flailing hardware can cause serious injury or death.



Section 3 - Pre-installation Checks and Options

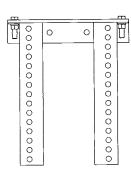
3.1 Checklist

- Check that the cleaner size is correct for the beltline width
- Check the belt cleaner carton and make sure all the parts are included
- Review the "Tools Needed" list on the top of the installation instructions
- Check the conveyor site:
 - Will the cleaner be installed on a chute
 - Is the install on an open head pulley requiring mounting structure (see 3.2 Optional Installation Accessories)

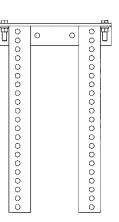
Section 3 - Pre-installation Checks and Options

3.2 Optional Mounting Kits

Versatile, adjustable brackets and plates that can be mounted on the conveyor structure so precleaners and secondary cleaners can be easily and quickly bolted into place.

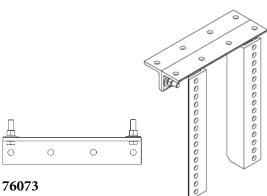


76071 Standard Mounting Bracket Kit • For most secondary cleaner installs.



76072 Long Mounting Bracket Kit • For installations that require

extra length legs.



76073

Optional Top Angle Kit

• Used with both standard and long mounting bracket kits for additional mounting options.

Optional Mounting Kits

(includes 2 brackets/bars)

ORDERING NUMBER	ITEM CODE	WT. LBS.
SSTSMB	76071	34.3
SSTLMB	76072	43.5
SSTOTA	76073	10.5
	NUMBER SSTSMB SSTLMB	NUMBERCODESSTSMB76071SSTLMB76072

*Hardware Included

Lead time: 1 working day

Pole Extender Kit

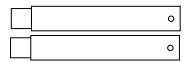
(includes 2 pole extenders)

DESCRIPTION	ORDERING	ITEM	WT.
	NUMBER	CODE	LBS.
Pole Extender Kit	MAPEK	76024	21.9

Provides 30" (750mm) of extended pole length. Lead time: 1 working day

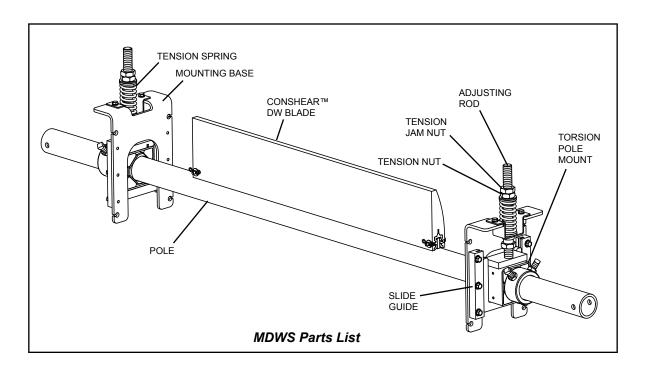
Specs and Notes:

- Standard brackets are 13" W x 15-1/2" L.
- Long brackets are 13" W x 21-1/2" L.

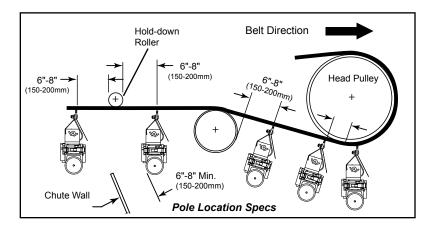




MDWS DryWipe Secondary Cleaner

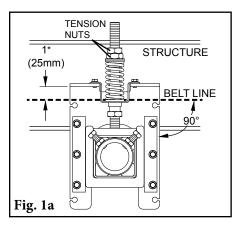


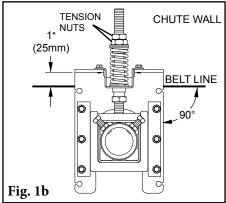
PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN CLEANER INSTALLATION.



1. Install the spring tensioner mounting bases. Clamp the mounting base into position so the top flange of the base is 1" (25mm) above the belt (Fig. 1a). Bolt or weld the mounting base in place. Locate and install the mounting base on the opposite side.

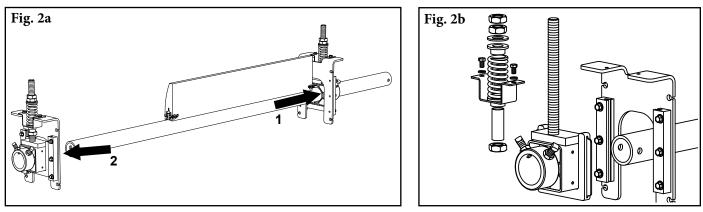
NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting base can be positioned 1" (25mm) above the belt (Fig. 1b). Cut access holes as needed.



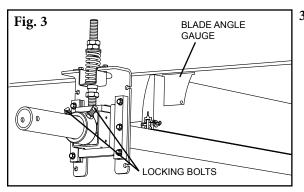


Section 4 - Installation Instructions

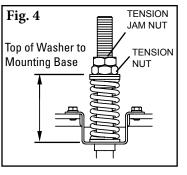
MDWS DryWipe Secondary Cleaner



2. Install the pole. Slide the pole into one torsion pole mount as far as needed and locate the other end into the opposite mount (Fig. 2a). If there is not enough space, remove one of the torsion pole mounts from the mounting base, slide the pole through the mounting base and reassemble (Fig. 2b).

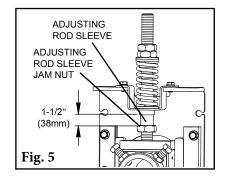


3. Set the blade angle. Center the pole/blade on the belt. Using the angle gauge provided, rotate the blade up to the belt to the preset angle. Tighten the two locking bolts on each torsion pole mount to lock the pole in place (Fig. 3). There should be no blade-to-belt contact while locking the pole in the correct position. If contact occurs, lower the pole by turning the adjusting rod tension nuts and reset the angle.



SST Tensioner Spring Length Chart



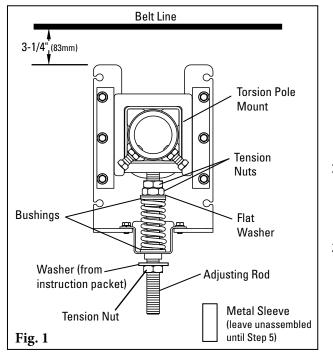


- 4. Set the blade tension. Loosen the top tension jam nuts on both sides. Turn the tension nuts until the correct spring compression is reached (Fig. 4). Spring compression is determined by spring length. See the chart above for the correct spring length for your belt width.
- **5.** Set adjusting rod sleeve. After setting the blade tension, screw the adjusting rod sleeve into the UHMW bushing until 1-1/2" (38mm) is showing (Fig. 5). Tighten the adjusting rod sleeve jam nut.
- 6. Test run the cleaner and inspect the cleaning performance. If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 1/8" compression adjustments on the tension springs.

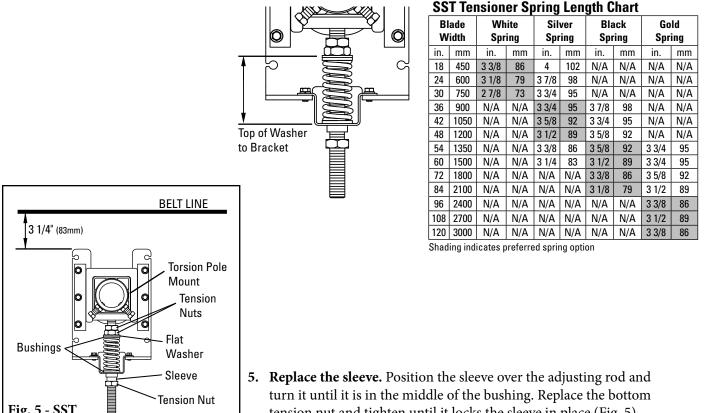


Section 4.2 - Push-up Tensioning Instructions

MDWS DryWipe Secondary Cleaner



- 1. Reconfigure the standard pull-up tensioner to the push-up style. Remove the 3 tension nuts, the flat washer, 2 bushings, the spring, the sleeve and the hat bracket; reassemble (Fig. 1) with 2 tension nuts, the flat washer, 2 bushings, the spring and the hat bracket on the upper end of the adjusting rod. Add washer (from instruction packet) and 3rd tension nut to bottom of adjusting rod.
- 2. Install the tensioner mounting bases. Mount the bases to the structure or chute so that the tops of the base legs are 3-1/4" (83mm) below the belt (Fig. 1).
- 3. Install the cleaner pole and set the blade angle. Follow the installation steps from the cleaner instructions on Page 9. Note: be sure the lock bolts on the torsion pole mount have been securely tightened to lock the pole in place before moving to Step 4.
- 4. Set the blade tension. Remove the bottom tension nut and washer from the adjusting rod. Turn the 2 upper tension nuts until the spring is compressed to the length shown on the Spring Length Chart below. Tighten the 2 tension nuts together to prevent loosening.



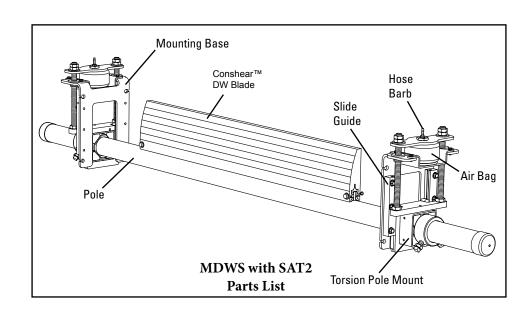
turn it until it is in the middle of the bushing. Replace the bottom tension nut and tighten until it locks the sleeve in place (Fig. 5).

Fig. 5 - SST

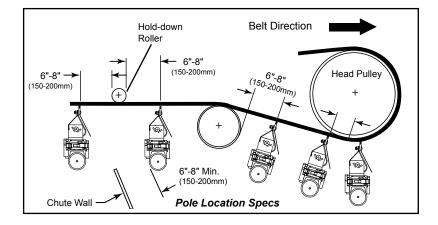
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Tension Nut

MDWS DryWipe with SAT2 Tensioner



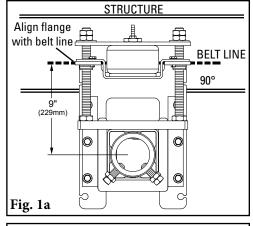
Physically lock out and tag the conveyor at the power source before you begin cleaner installation.

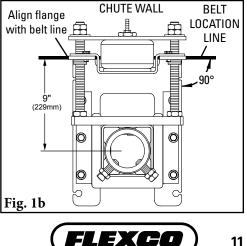


1. Install the air/water tensioner mounting bases. Clamp the mounting base into position so the top flange is even with the belt (Fig. 1a). Bolt the mounting base in place. Locate and install the mounting base on the opposite side.

NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting base can be aligned with the belt (Fig. 1b). Cut access holes as needed.

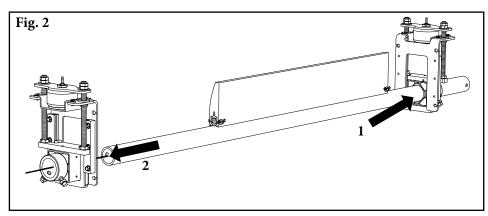
NOTE: If push-up tensioning is needed because of space restriction or obstruction, follow steps on Page 13 to reconfigure the tensioners.



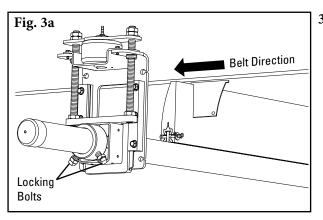


Section 4.3 - Installation Instructions

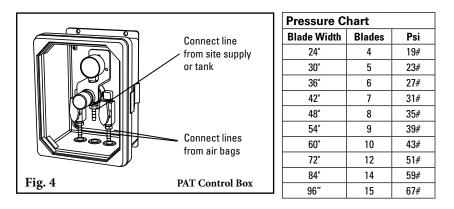
MDWS DryWipe with SAT2 Tensioner



2. Install the pole. Slide the pole into one torsion pole mount as far as needed and locate the other end into the opposite mount (Fig. 2). If there is not enough space, remove one of the mounting bases, slide the pole through the torsion pole mount, and remount the base.



- 3. Set the blade angle. Center the pole/blade on the belt. Rotate the pole until the blade is perpendicular to the belt, using the blade setup gauge provided (Fig. 3a). Tighten the two locking bolts on each torsion pole mount to lock the pole in place (Fig. 3b). There should be no blade-to-belt contact while locking the pole in the correct position. If contact occurs, double check the dimension from Step 1.
- 4. Connect the supply lines and set tension pressure. With the parts supplied, attach a line to each air bag and run the lines to the outlet side of the control box (Fig. 4). NOTE: Be sure lines are safely away from the belt. Connect the line from the inlet side of the box to the site's supply or air tank. Test the connections for leaks and set the pressure per the chart below. Pressure may be reduced to suit application.

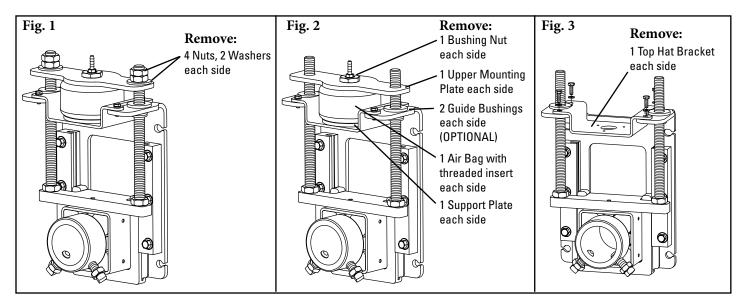


5. Test run the cleaner and inspect the cleaning performance. If vibration occurs, increase tip layback by a small amount (approx. 3 degrees).

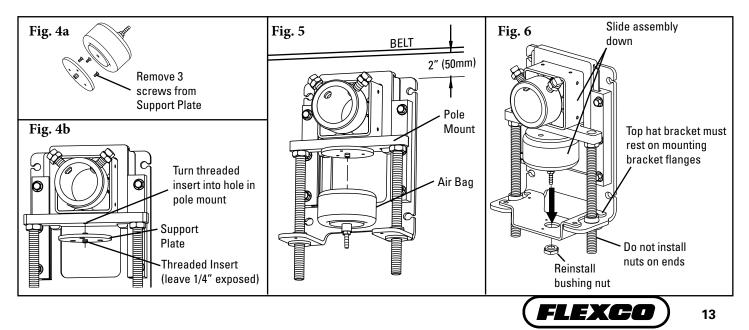
Section 4.4 - Push-up Tensioning Instructions

MDWS with SAT2 Tensioner

- 1. Disassemble guide kit. Remove nuts and washers from both sides of tensioner (Fig. 1).
- 2. Disassemble upper mounting plate and air bag. Remove and save bushing nut. Remove and discard upper mounting plate. Remove (unscrew) and save air bag, threaded insert and support plate (Fig. 2). Optional: Remove guide bushings. It will not affect the tensioner if these are left in place.
- 3. Remove and save top hat bracket and its hardware (Fig. 3).
- 4. Flip over PAT mounting bracket assembly. The two flanges are now at the bottom.



- **5. Reassemble the SAT2 Tensioner.** Remove three screws from air bag support plate (Fig. 4a). Turn the threaded insert into the support plate. Also turn part of the threaded insert into the hole on pole mount. (Fig. 4b). Ensure 1/4" (6mm) of threaded insert is still exposed, then turn the air bag onto the threaded insert and tighten (Fig. 5).
- 6. Reassemble top hat bracket. Ensure bracket is resting on flanges of mounting bracket (Fig. 6).
- 7. Slide pole mount/threaded rods/air bag assembly down with hose barb through hole in top hat bracket and reinstall bushing nut (Fig. 6).
- 8. Complete installation by following the steps on page 12.



5.1 Pre-Op Checklist

- Recheck that all fasteners are tightened properly
- Add pole caps
- Apply all supplied labels to the cleaner
- Check the blade location on the belt
- Be sure that all installation materials and tools have been removed from the belt and the conveyor area

5.2 Test Run the Conveyor

- Run the conveyor for at least 15 minutes and inspect the cleaning performance
- Check the tensioner spring for recommended length (proper tensioning)
- Make adjustments as necessary

NOTE: Observing the cleaner when it is running and performing properly will help to detect problems or when adjustments are needed later.

Flexco belt cleaners are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the cleaner is installed a regular maintenance program should be set up. This program will ensure that the cleaner operates at optimal efficiency and problems can be identified and fixed before the cleaner stops working.

All safety procedures for inspection of equipment (stationary or operating) must be observed. The MDWS DryWipe Belt Cleaner operates at the discharge end of the conveyor and is in direct contact with the moving belt. Only visual observations can be made while the belt is running. Service tasks can be done only with the conveyor stopped and by observing the correct lockout/tagout procedures.

6.1 New Installation Inspection

After the new cleaner has run for a few days a visual inspection should be made to ensure the cleaner is performing properly. Make adjustments as needed.

6.2 Routine Visual Inspection (every 2-4 weeks)

A visual inspection of the cleaner and belt should look for:

- If spring length is the correct length for optimal tensioning
- If spring gap is correct for optimal tensioning
- If belt looks clean or if there are areas that are dirty
- If blade is worn out and needs to be replaced
- If there is damage to the blade or other cleaner components
- If fugitive material is built up on cleaner or in the transfer area
- If there is cover damage to the belt
- If there is vibration or bouncing of the cleaner on the belt
- If a snub pulley is used, a check should be made for material buildup on the pulley
- Significant signs of carryback

If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for cleaner maintenance.

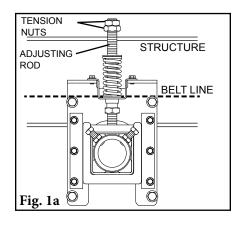
6.3 Routine Physical Inspection (every 6-8 weeks)

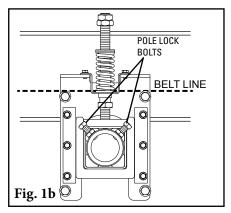
When the conveyor is not in operation and properly locked and tagged out, a physical inspection of the cleaner to perform the following tasks:

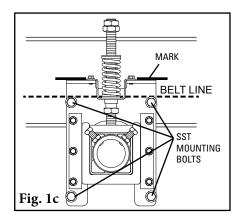
- Clean material buildup off of the cleaner blade and pole.
- Closely inspect the blade for wear and any damage. Replace if needed.
- Ensure full blade to belt contact.
- Inspect the cleaner pole for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components
- Check the tension of the cleaner blade to the belt. Adjust the tension if necessary using the chart on the cleaner.
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly.

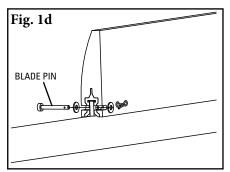


6.4 Blade Replacement Instructions







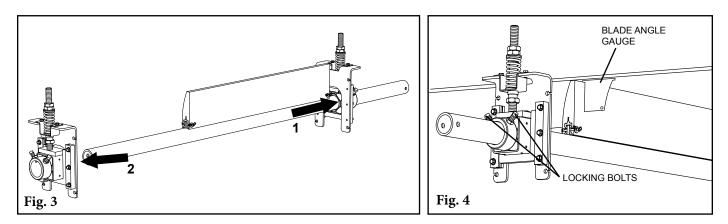


BEFORE YOU BEGIN:

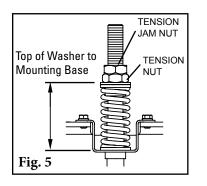
Physically Lock Out And Tag The Conveyor At The Power Source.

- 1. Release the blade tension and remove worn blade tips.
 - a. Loosen the tension nuts on both tensioners to the top of the adjusting rod (Fig. 1a). If using air tensioner, release air pressure. If accessible, remove blade pins from the blade and remove the worn blade (Fig. 1d) and skip to step 1e.
 - b. Loosen the pole lock bolts on both ends (Fig. 1b) and allow the blade to rotate downward. If accessible, remove the blade pins from the blade and remove the blade (Fig. 1d) and skip to step 1e.
 - c. Make a mark on the structure or mounting bracket above one SST2/SAT2 tensioner. Remove the SST2/SAT2 mounting bolts, nuts, and washers from one tensioner (Fig. 1c) then remove the tensioner and pole.
 - d. Remove the blade pins from the blade and remove blade (Fig. 1d).
 - e. Insert new blade and blade pins.

- 2. Reinstall the pole and tensioner. (If not removed skip to Step 3.) Slide pole into mounted tensioner (Fig. 3). Remount SST2/SAT2 tensioner using marks made in step 1c (Fig. 2).
- 3. Set blade angle. (If pole was not turned down or removed, skip to Step 4.) Center the pole/blades on the belt. Using the tip gauge, align the blade so the top of the gauge is aligned with the belt (Fig. 4). Tighten the two locking bolts on each tensioner to lock the pole in place (Fig. 4).



4. Set the blade tension. Loosen the top tension jam nuts on both sides. Turn the lower tension jam nuts on both sides. Turn the lower tension nut until the correct spring compression is reached (Fig. 5). Tighten the top tension jam nut to lock in place. See chart below for the correct spring length for your belt width. If using air pressure, reset the control box to the specified pressure in chart below.



SST	Tensioner	Spring	Lenath	Chart
		- F		•

	ade	Wh	ite	Sil	ver	Bla	nck	Go	ld
W	idth	Spr	ing	Spr	ing	Spr	ing	Spr	ing
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18	450	3 3/8	86	4	102	N/A	N/A	N/A	N/A
24	600	3 1/8	79	3 7/8	98	N/A	N/A	N/A	N/A
30	750	2 7/8	73	3 3/4	95	N/A	N/A	N/A	N/A
36	900	N/A	N/A	3 3/4	95	3 7/8	98	N/A	N/A
42	1050	N/A	N/A	3 5/8	92	3 3/4	95	N/A	N/A
48	1200	N/A	N/A	3 1/2	89	3 5/8	92	N/A	N/A
54	1350	N/A	N/A	3 3/8	86	3 5/8	92	3 3/4	95
60	1500	N/A	N/A	3 1/4	83	3 1/2	89	3 3/4	95
72	1800	N/A	N/A	N/A	N/A	3 3/8	86	3 5/8	92
84	2100	N/A	N/A	N/A	N/A	3 1/8	79	3 1/2	89
96	2400	N/A	N/A	N/A	N/A	N/A	N/A	3 3/8	86
108	2700	N/A	N/A	N/A	N/A	N/A	N/A	3 1/2	89
120	3000	N/A	N/A	N/A	N/A	N/A	N/A	3 3/8	86
Shading indicates preferred spring option									

Pressure Chart

110000110	onarc
Blade Width	Psi
24"	19#
30"	23#
36"	27#
42"	31#
48"	35#
54"	39#
60"	43#
72"	51#
84"	59#
96″	67#

5. Test run the conveyor and inspect the cleaning performance. If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 1/8" compression adjustments on the tension springs.



dicates preferred spring opt

Section 6 - Maintenance (cont.)

6.5 Maintenance Log

Conveyor Name/No.		
Date:	Work done by:	Service Quote #
Activity:		
		Service Quote #
Date:	Work done by:	Service Quote #
		Service Quote #
		Service Quote #
Activity		
	Work done by:	Service Quote #
		Service Quote #
Activity		

Section 6 - Maintenance (cont.)

6.6 Cleaner Maintenance Checklist

Belt Cleaner:	Serial Number:
Beltline Information: Beltline Number:	Belt Condition:
	' 🗌 36" 🗌 42" 🔲 48" 🔲 54" 🔲 60" 🔲 72" 🗌 84" 🔲 96" 🔲 Dmm) (900mm) (1050mm) (1200mm) (1350mm) (1500mm) (1800mm) (2100mm) (2400mm)
Head Pulley Diameter (Belt & Laggi	ing): Belt Speed: fpm Belt Thickness:
Belt Splice Conc	dition of Splice Number of splices Skived Unskived
Material conveyed	
Days per week run	Hours per day run
Blade Life: Date blade installed:	Date blade inspected: Estimated blade life:
Is blade making complete contact w	vith belt? Yes No
Distance from wear line: LE	FT MIDDLE RIGHT
Blade condition: Good	Grooved Smiled Not contacting belt Damaged
Measurement of spring: Require	red Currently
Was Cleaner Adjusted:	Yes No
Pole Condition:	Good Bent Worn
Lagging: Slide lag	Ceramic Rubber Other None
Condition of lagging: Good	Bad Other
Cleaner's Overall Performance:	(Rate the following 1 - 5, 1=very poor - 5= very good)
Appearance:	Comments:
Location:	Comments:
Maintenance:	Comments:
Performance:	Comments:
Other Comments:	



Problem	Possible Cause	Possible Solutions
	Cleaner secure bolts not set	Ensure all locking nuts are tight (Loctite)
	Cleaner not set up correctly	Ensure cleaner set up properly (check blade angle with gauge)
Vibration	Belt tension too high	Ensure cleaner can conform to belt, or replace with alternate Flexco secondary cleaner
	Belt flap	Introduce hold-down roller to flatten belt
	Cleaner over-tensioned	Ensure cleaner is correctly tensioned
	Cleaner under-tensioned	Ensure cleaner is correctly tensioned
	Cleaner not set up correctly	Ensure cleaner set up properly (check blade angle with gauge)
Material buildup on cleaner	Buildup on chute	Ensure cleaner is not located too close to back of chute, allowing buildup
	Cleaner being overburdened	Introduce Flexco precleaner
	Excessive sticky material	Frequently clean unit of buildup
	Cleaner over-tensioned	Ensure cleaner is correctly tensioned
Damaged belt cover	Cleaner blade damage	Check blade for wear, damage and chips, replace where necessary
Damageu beit cover	Attack angle not correct	Ensure cleaner set up properly (check blade angle with gauge)
	Material buildup in chute	Frequently clean unit of buildup
	Cleaner not set up correctly	Ensure cleaner set up properly (check blade angle with gauge)
Cleaner not conforming	Belt tension too high	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner
to belt	Belt flap	Introduce hold-down roller to flatten belt
	Cleaner cannot conform	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner
	Cleaner not set up correctly	Ensure cleaner set up properly (check tip angle with gauge)
	Cleaner tension too low	Ensure cleaner is correctly tensioned
	Cleaner blades worn/damaged	Check blade for wear, damage and chips, replace where necessary
Material passing cleaner	Cleaner being overburdened	Introduce Flexco precleaner
	Belt flap	Introduce hold-down roller to flatten belt
	Belt worn or grooved	Introduce water spray pole
	Cleaner cannot conform	Ensure cleaner can conform to belt (introduce hold-down roller), or replace with alternate Flexco secondary cleaner
Damage to mechanical fastener	Belt not skived correctly	Spot and redo splice correctly, lowering the profile flush or below belt surface
Missing material in belt	Cupped Belt	Install hold-down roller and reset blade angle with gauge
center only	Cleaner blade worn/damaged	Check blade for wear, damage and chips, replace where necessary
Missing material on outer	Cupped Belt	Install hold-down roller and reset blade angle with gauge
edges only	Cleaner blade worn/damaged	Check blade for wear, damage and chips, replace where necessary

8.1 Specs and Guidelines

Pole Length Specifications*

CLEANER SIZE		BLADE WIDTH		POLE LENGTH		MAXI Convey	MUM Or span
in.	mm	in.	mm	in.	mm	in.	mm
24	600	28	700	84	2100	68	1700
30	750	34	850	90	2250	74	1850
36	900	40	1000	96	2400	80	2000
42	1050	46	1150	102	2550	86	2150
48	1200	52	1300	108	2700	92	2300
54	1350	58	1450	114	2850	98	2450
60	1500	64	1600	120	3000	104	2600
72	1800	76	1900	126	3150	116	2900
84	2100	88	2200	138	3450	128	3200
96	2400	100	2500	150	3750	140	3500

 	- Overall Pole Length – Maximum Conveyor Span	

*For special extra long pole length requirements a Pole Extender Kit (#76024) is available that provides 30" (750mm) of extended pole length. See Page 93. Pole Diameter - 2-7/8" (73mm)

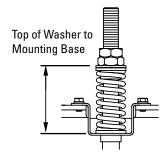
Clearance Guidelines for Installation

	ONTAL RANCE JIRED	CLEAF	TICAL RANCE JIRED			
in.	mm	in. mm				
4	100	10	250			

SST Tensioner Spring Length Chart

	ade idth	Wh Spr		-	ver 'ing	Black Spring		Go Spr	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18	450	3 3/8	86	4	102	N/A	N/A	N/A	N/A
24	600	3 1/8	79	3 7/8	98	N/A	N/A	N/A	N/A
30	750	2 7/8	73	3 3/4	95	N/A	N/A	N/A	N/A
36	900	N/A	N/A	3 3/4	95	3 7/8	98	N/A	N/A
42	1050	N/A	N/A	3 5/8	92	3 3/4	95	N/A	N/A
48	1200	N/A	N/A	3 1/2	89	3 5/8	92	N/A	N/A
54	1350	N/A	N/A	3 3/8	86	3 5/8	92	3 3/4	95
60	1500	N/A	N/A	3 1/4	83	3 1/2	89	3 3/4	95
72	1800	N/A	N/A	N/A	N/A	3 3/8	86	3 5/8	92
84	2100	N/A	N/A	N/A	N/A	3 1/8	79	3 1/2	89
96	2400	N/A	N/A	N/A	N/A	N/A	N/A	3 3/8	86
108	2700	N/A	N/A	N/A	N/A	N/A	N/A	3 1/2	89
120	3000	N/A	N/A	N/A	N/A	N/A	N/A	3 3/8	86

Vertical Horizontal



PAT Pressu	ire Chart
Pressure (Chart

I I CSSUIC	Unuit
Blade Width	Psi
24"	19#
30"	23#
36"	27#
42"	31#
48"	35#
54"	39#
60"	43#
72"	51#
84"	59#
96″	67#

Shading indicates preferred spring option

Specifications:

٠	Maximum Belt Speed	1000 FPM (5M/sec)
٠	Temperature Rating	30°F to 180°F (-35°C to 82°C)
٠	Usable Blade Wear Length	4-1/2" (113mm)

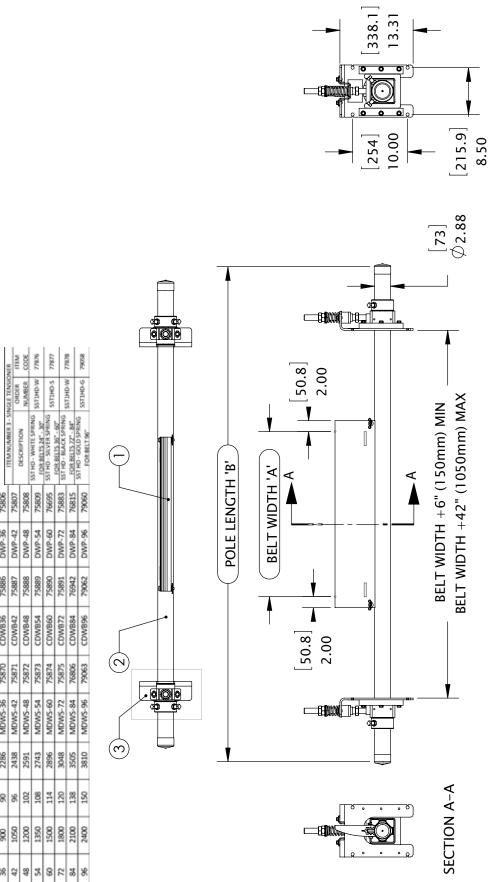
- BladeUrethane with UHMW additive (softer durometer to squeegee water off and additive to enhance blade life)
- Other sizes available upon request.

 CEMA Cleaner Rating......Class 4

FLEXCO

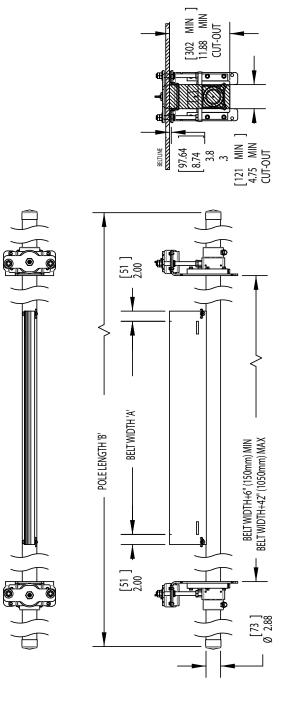
Section 8 - Specs and CAD Drawings (cont.)

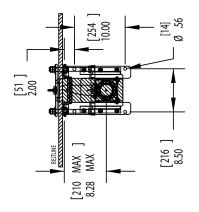
8.2 CAD Drawing - MDWS DryWipe with SST Tensioners



							NER	ITEM	ő	77876	77877		1/8/8	25062
							JOLE TENSIO	ORDER	NUMBER	SST1HD-W	SST1HD-S	111 10110-00	M-OHTISS	SST1HD-G
							TTEM NUMBER 3 - SINGLE TENSIONER		DESCRIPTION	55T HD - WHITE SPUNG FOR BUTS 24" - 30"	SSTHD - SILVER SPRING	SST HD - BLACK SPRING	FOR BELTS 72" - 84"	FOR BELT 96"
ABER 2 -	POLE	ITEM	CODE	75804	75805	75806		75807	75808	75809	76695	75883	76815	79060
ITEM NUMBER 2	MDWS POLE	ORDER	NUMBER	DWP-24	DWP-30	DW/P-36		DWP-42	DWP-48	DWP-54	DWP-60	DWP-72	DWP-84	DWP-96
ABER 1-	SLADE	ITEM	CODE	75884	75885	75886		75887	75888	75889	75890	75891	76942	79062
ITEM NUMBER 1 -	MDWS BLADE	ORDER	NUMBER	CDWB24	CDWB30	CDWB36		CDWB42	CDWB48	CDW854	CDWB60	CDWB72	CDWB84	CDWB96
NDARY	ER	ITEM	CODE	75868	75869	75870		75871	75872	75873	75874	75875	76806	79063
MDWS SECONDARY	CLEANER	ORDER	NUMBER	MDWS-24	MDWS-30	MDWS-36		MDWS-42	MDWS-48	MDWS-54	MDWS-60	MDWS-72	MDWS-84	MDWS-96
		POLE LENGTH 'B'	MM	1981	2134	2286		2438	2591	2743	2896	3048	3505	3810
	SPECIFICATIONS	POLE LET	N	78	84	8		96	102	108	114	120	138	150
	SPECIFIC	BELT WIDTH 'A'	MM	600	750	006		1050	1200	1350	1500	1800	2100	2400
		BELT WI	N	24	90	98		42	48	3	99	72	\$	8

8.3 CAD Drawing - MDWS DryWipe with SAT2 Tensioners





	Specifi	Specifications		MDWS SEC Cleaner W/SAT2	aner W/SAT2
Belt Wi	Belt Width "A"	Pole Length "B"	igth "B"	ordan Numbro	مامت المعاد
in.	uu	in.	mm		
24	009	84	2133	HR-24P	78736
30	750	06	2286	40E-SHM	78737
36	006	96	2438	49E-SHM	78738
42	1050	102	2590	d24-SHM	78739
48	1200	108	2743	MHS-48P	78740
1 24	1350	114	2859	442-SHM	78741
09	1500	120	3000	409-SHM	78742
72	1800	126	3200	MHS-72P	78743
84	2100	138	3505	MHS-84P	78744
96	2400	150	3750	MHS-96P	



9.1 Replacement Parts List - MDWS Secondary w/SST or SAT2 Tensioners

Reni	ه acement Parts	889			•	Detail view of Item	ship ann	cleaners/ oped befo ounceme	re chan nt ONLY	geover
Порт						\sim				(\mathfrak{P})
REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.		$\angle \searrow$				J
nEr	24" (600mm) Pole	MSPP30	75804	46.0		(1)		Har		
	30" (750mm) Pole	MSPP36	75805	50.5		(2)			-	
	36" (900mm) Pole	MSPP42	75806	55.5		<u> </u>	→	ĿN	~	
	42" (1050mm) Pole	MSPP48	75807	60.0		(7)	70		•0
1	48" (1200mm) Pole	MSPP54	75808	64.0			Ð	4		
1	54" (1350mm) Pole	MSPP60	75809	67.0		(13)		(4)		
	60" (1500mm) Pole	MSPP66	76695	76.0						
	72" (1800mm) Pole	DWP-72	75883	90.0	\sim					
	84" (2100mm) Pole	DWP-84	76815	100.0	(12)					
	96 (2400mm) Pole	DWP-96	79060	110.0	E					
2	Blade Pin Kit* (1 ea.) Tension Spring - White (1 ea.)	MSPBPK	75831	0.1						
3	for belts 18" - 30" (450-750mm)	STS-W	75846	0.5			(14)	E	0	
3a	Tension Spring - Silver (1 ea.) for belts 36" - 60" (900-1500mm)	STS-S	75843	0.8	(L4)-					5
3b	Tension Spring - Black (1 ea.) for belts 72" - 84" (1800-2100mm)	STS-B	75844	1.0						
3c	Tension Spring - Gold (1 ea.) for belts 96" (2400mm)	STS-G	78142	1.3					- M	T
4	HD Torsion Pole Mount* (1 ea.) (includes adjusting rod, 3 nuts & sleeve) (See 8 & 8a for bushings)	SSTHDPM	77868	15.0	(16-					
5	SST HD Mounting Base Kit* (includes 1 mounting base, 2 slide guides, top hat bracket & bottom bushing)	SSTHDMK	77870	10.2				(17)	PAT Co	ontrol Box
6	SST Hat Bracket (pair)	SSTHB	79582	3.5		(10)(11)		\bigcirc		
7	SST Slide Guide Kit* (incl. 2 slide guides)	STGK2	77867	1.1		00				
8	SST Bushing Kit - White/Silver (includes 2 bushings)	SSTBK-W	76636	0.1		ondary Air Tension	er 2			
8a	SST Bushing Kit - Black/Gold (includes 2 bushings)	SSTBK-B	76637	0.1	кер	lacement Parts	ORDERING	ITEM	WT.	
9	SST Lower Bushing Kit (pair)	SSTLBK	79493	0.1	REF	DESCRIPTION	NUMBER	CODE	LBS.	
-	HD Spring Tensioner* - White includes 2 each items 3, 4, 5 & 8) for belts 18" - 30" (450-750mm)	SST2HD-W	77879	60.6	10	SAT2 w/PAT Control Box SAT2 w/o Control Box	SAT2PAT SAT2NCB	78735 78703	43.5 41.0	
-	HD Spring Tensioner* - Silver (includes 2 each items 3a, 4, 5 & 8) for belts 36" - 60" (900-1500mm)	SST2HD-S	77880	61.4	12 13	SAT Air/Water Bag Kit SAT 1/8" Hose Barb Kit	SATB SATHB	76083 76084	5.1 0.1	
	HD Spring Tensioner* - Black				14	SAT2 Mounting Base Kit	SAT2MK	78704	11.6	
-	(includes 2 each items 3b, 4, 5 & 8a) for belts 72" - 84" (1800-2100mm)	SST2HD-B	77881	62.0	15	ST Slide Guide Kit	STGK2	77867	1.1	
-	HD Spring Tensioner* - Gold (includes 2 each items 3c, 4, 5 & 8a) for belts 96" (2400mm)	SST2HD-G	79041	62.6	16 17	SAT2 Torsion Pole Mount (incl. threaded rods & 6 nuts) PAT Control Box	SAT2PM PACB	78732 78683	11.1 11.0	
U.S. Pa	tent No. D482,508S	*Har Lead time	dware In			time: 1 working day				

Spring Tensioner Selection Chart

CLEANER SIZE

MDWS 24" - 30"

(600 - 750 mm) MDWS 36" - 60"

(900 - 1500 mm) MDWS 72" - 84"

(1800 - 2100 mm) MDWS 96" (2400 mm) 77879

Х

77880

Х

SST2HD-W SST2HD-S SST2HD-B SST2HD-G

77881

Х

79041

Х

Legacy Replacement Parts for Tensioners shipped prior to changeover announcement

L1	Adjusting Rod Kit (includes 1 rod, 2 nuts, 1 bushing, 1 washer) for belts 24" - 60" (600-1500mm)	STAK	75847	2.9
L2	HD Adjusting Rod Kit (includes 1 rod, 2 nuts, 1 HD bushing, 1 washer) for belts 72"-84" (1800-2100mm)	STAKHD	75892	3.0
L3	Legacy SST Hat Channel Kit	SSTHK	79070	1.5
L4	SAT2 Adjusting Rod Kit	SAT2AK	78733	5.0
-	SST Tensioner Bushing Update Kit (includes 2 lower bushings, 2 sleeves, 2 nuts)	SST-BUK	76943	0.3

Lead time: 1 working day

Flexco provides many conveyor products that help your conveyors to run more efficiently and safely. These components solve typical conveyor problems and improve productivity. Here is a quick overview on just a few of them:

MMP Precleaner



- Extra cleaning power right on the head pulley
- A 10" (250mm) TuffShear[™] blade provides increased blade tension on the belt to peel off abrasive materials
- The unique Visual Tension Check[™] ensures optimal blade tensioning and quick, accurate retensioning
- Easy to install and simple to service

MHS Secondary Cleaner with Service Advantage Cartridge



- An easy slide-out cartridge for service
- Cartridge design to speed up blade-change maintenance
- Patented PowerFlex[™] Cushions for superior cleaning performance
- Compatible with Flexco mechanical splices

Flexco Specialty Belt Cleaners



- "Limited space" cleaners for tight conveyor applications
- High Temp cleaners for severe, high heat applications
- A rubber fingered cleaner for chevron and raised rib belts
- Multiple cleaner styles in stainless steel for corrosive applications

DRX[™] Impact Beds



- Exclusive Velocity Reduction Technology[™] to better protect the belt
- Slide-Out Service[™] gives direct access to all impact bars for change-out
- Impact bar supports for longer bar life
- 4 models to custom fit to the application

PT Max[™] Belt Trainer



- Patented "pivot & tilt" design for superior training action
- Dual sensor rollers on each side to minimize belt damage
- Pivot point guaranteed not to seize or freeze up
- Available for topside and return side belts

Belt Plows



- A belt cleaner for the tail pulley
- Exclusive blade design quickly spirals debris off the belt
- Economical and easy to service
- Available in vee or diagonal models



The Flexco Vision

To become the leader in maximising belt conveyor productivity for our customers worldwide through superior service and innovation.

Distribution in Europe by: Flexco Europe GmbH • Leidringer Strasse 40-42 • D-72348 Rosenfeld • Germany Phone: +49-7428-9406-0 • Fax: +49-7428-9406-260 • E-mail: europe@flexco.com • Web: www.flexco.com

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