

Edgewater Machine Company Inc.

Designers and Manufacturers
of Special Machinery

The Emco 9000-3 Parts Manual Version 2006-2013



**The Highest Quality Machine
Built in America
Since 1944**



Edgewater Machine Company Inc.

Parts Manual Notice:

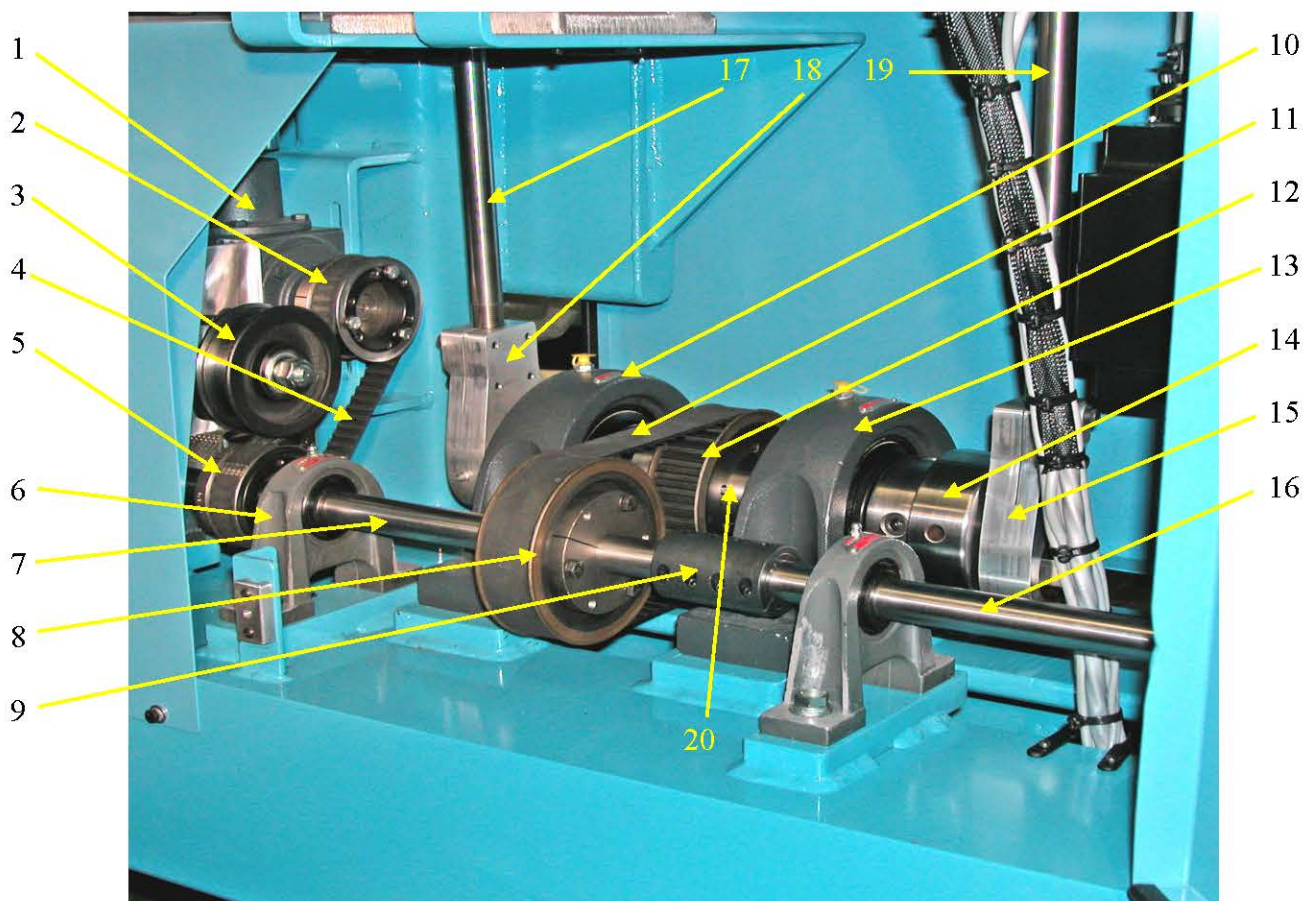
Emco products should be used only for the purpose and in the manner intended by their original design. It is recommended that no modifications be made to this product. Any modification of this product will void any expressed or implied warranty and will hold the user responsible.

At the time of writing , this manual was complete and up-to-date. Due to continual design improvements, however, it is possible that the descriptions, specifications, etc. may vary from the product delivered to you. If there are any questions, please contact Edgewater Machine Company for clarification.

Comments concerning this manual and our equipment are welcomed and should be directed to our office for evaluation.

Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.



Item #	Part #	Description
1	CH165HC	Looper and Spreader Frame Gear Box
2	CH30L100x1	Gear Box Timing Pulley with 1" bore bushing
3	CH164	Gear Box Timing Belt Tensioner Pulley
4	CH270L100	Gear Box Timing Belt, 1" wide
5	CH30L100x1.3/16	Gear Box Timing Pulley, 1.3/16" Shaft Bushing
6	CHS828M	Drive Shaft Pillow Block Bearing, 1.3/16"
7	CH1046A&B	Drive Shaft, 2 pcs., specify length of each, 1.3/16" with keyway
8	CH1045-2	Drive Shaft Timing Pulley with 1.3/16" Bushing
9	CH1046C	Drive Shaft Coupling, 1.3/16", keyed
10	CHMPD48	Main Shaft Pillow Block Bearing, 3"
11	CH330H200	Main Shaft Timing Belt, 2" Wide
12	CH1044-2	Main Shaft Timing Pulley with 3" Bore
13	CHMPD48	Main Shaft Pillow Block Bearing, 3"
14	CH86-1-94	Needles Crank Drive Eccentric

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Emco 9000 Series Chainstitch Part Listing

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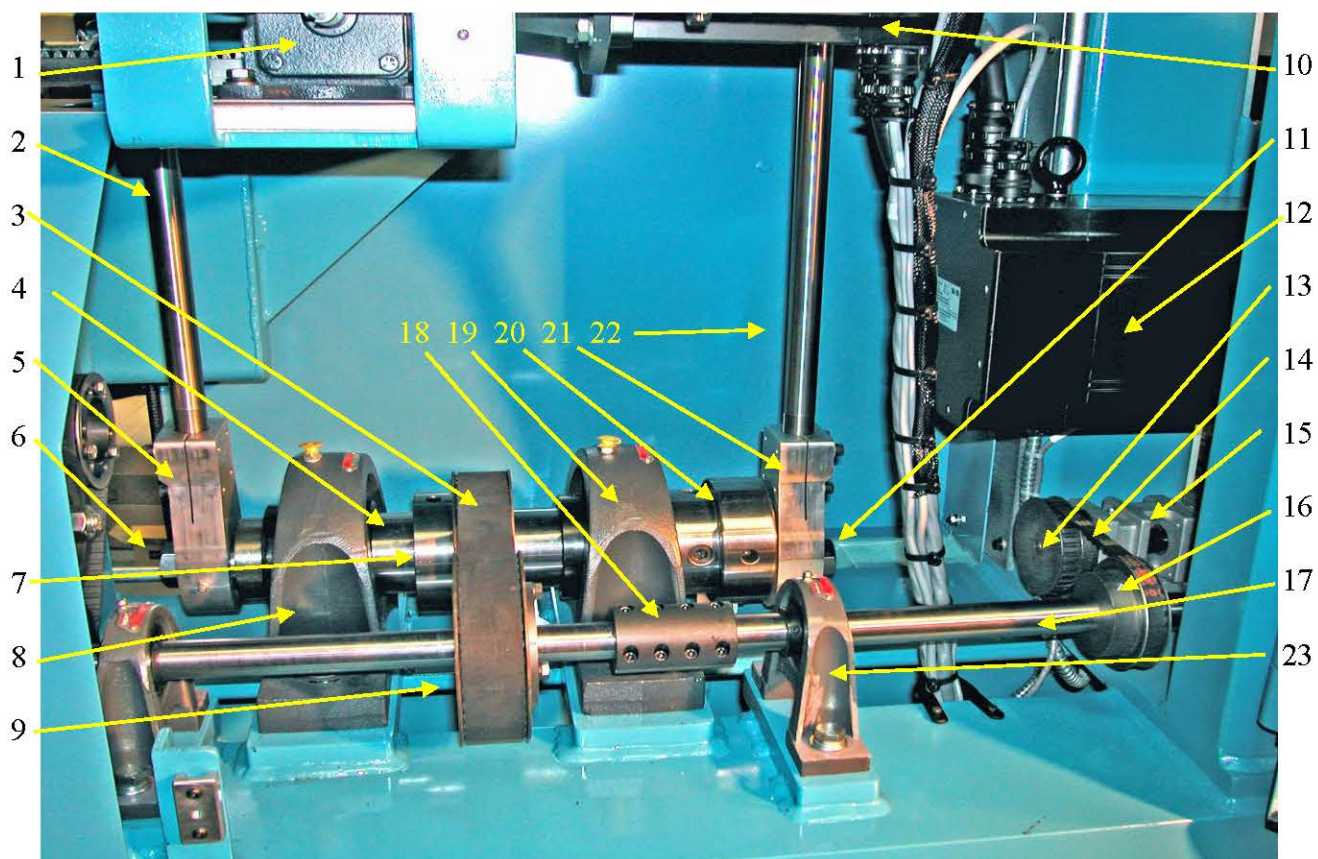
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Item #	Part #	Description
15	CH83-L	Needle Drive Lower Drive Link, LH Thread
16	CH1046A&B	Drive Shaft, 2 pcs., specify length of each, 1.3/16" with keyway
17	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14 Thread
18	CH83-L	Presser Foot Lower Drive Link, LH Thread
19	CH67	Needles Drive Connecting Rod, 27" long, 1"-14
20	CH1043	Main Shaft, 3" Dia. x 15" long, with tapped hole for PF Drive

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Emco 9000 Series Chainstitch Part Listing

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Item #	Part #	Description
1	CH181HC	Carriage Gear Box
2	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14
3	CH330H200	Main Shaft Timing Belt, 2" wide
4	CH1043	Main Shaft, 3" Dia. x 15" long, with tapped hole for PF Drive
5	CH83-L	Lower LH Presser Foot Connecting Rod Link
6	CH89 / CH89SW	Shoulder Bolt – 24mm. / Step washer for bolt
7	CH1044-2	Main Shaft timing Pulley, 3" Bore
8	CHMPD48	Main Shaft Pillow Blocks, 3", (2)
9	CH1045-2	Drive Shaft Timing Pulley, 1.3/16" Bushing
10	MPM1141-FRME-AM	Carriage Servo Motor
11	CH89 / CH89SW	Shoulder Bolt – 24mm. / Step washer for bolt
12	MPM1901-FRM-832	Main Shaft Servo Motor
13	CH30L050x1/2	Encoder Timing Pulley, 1/2" Bore
14	CH225L050	Encoder Timing Belt

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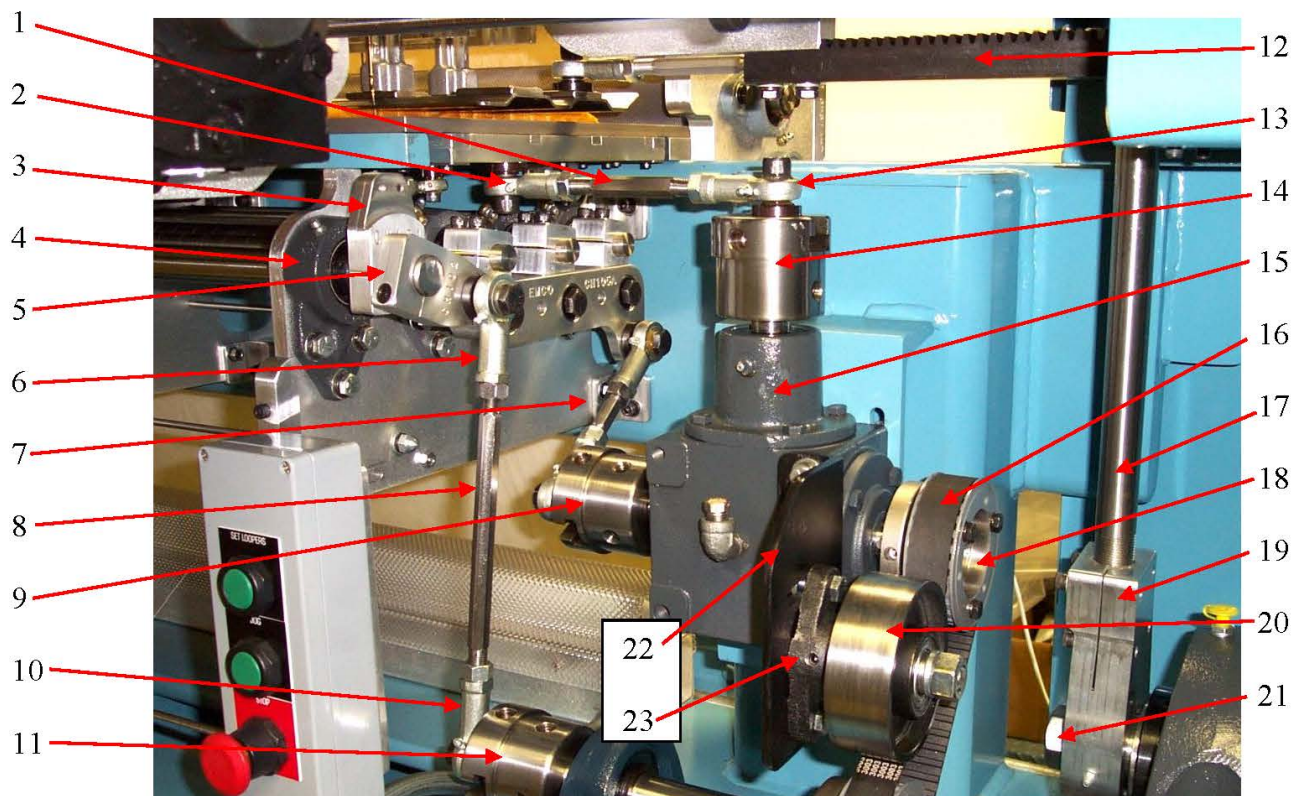
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Item #	Part #	Description
15	CH1181	Encoder Mounting Bracket
16	CH30L050x1.3/16	Encoder Timing Pulley, 1.3/16" Bore
17	CH1046A&B	Drive Shaft, 2 pcs., specify length of each, 1.3/16" with keyway
18	CH1046C	Drive Shaft Coupling, 1.3/16", keyed
19	CHMPD48	Main Shaft Pillow Blocks, 3", (2)
20	CH86-1-94	Needles Crank Drive Eccentric
21	CH83-L	Lower L.H. Needles Connecting Rod Link
22	CH67	Needles Drive Connecting Rod, 27" long, 1"-14
23	CHS828M	Drive Shaft Pillow Block Bearing, 1.3/16"

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Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.



Item #	Part #	Description
1	CH123	Spreader Frame Connecting Rod, Left /Right Motion, 12mm x 6" long
2	CH-BRF12	Spreader Frame 12mm Rod End, specify LH or RH Thread
3	CH101	Spreader Frame Secondary Drive Lever, for Forward & Back
4	CHFB16	1", Three Bolt Flange Bearing
5	CH102	Spreader Frame Primary Drive Lever, for Forward & Back
6	CH-BRF1/2-20RH	1/2-20 Rod End, RH
7	CH106NT	Looper Shaft Connecting Rod Complete with Rod Ends
8	CH107	Spreader Frame Forward & Back Connecting Rod, 1/2-20x9.5
9	CH86-2-93	Looper Drive Crank Eccentric
10	CH-BRF1/2-20LH	1/2-20 Rod End, LH
11	CH86-2-93	Spreader Frame Drive Forward and Back Crank Eccentric
12	CHNSR10x1	Carriage Rack Gear, 16" long
13	CH-BRF12	Spreader Frame 12mm Rod End, specify LH or RH Thread
14	CH86-2-93	Spreader Frame Drive Left/Right Crank Eccentric

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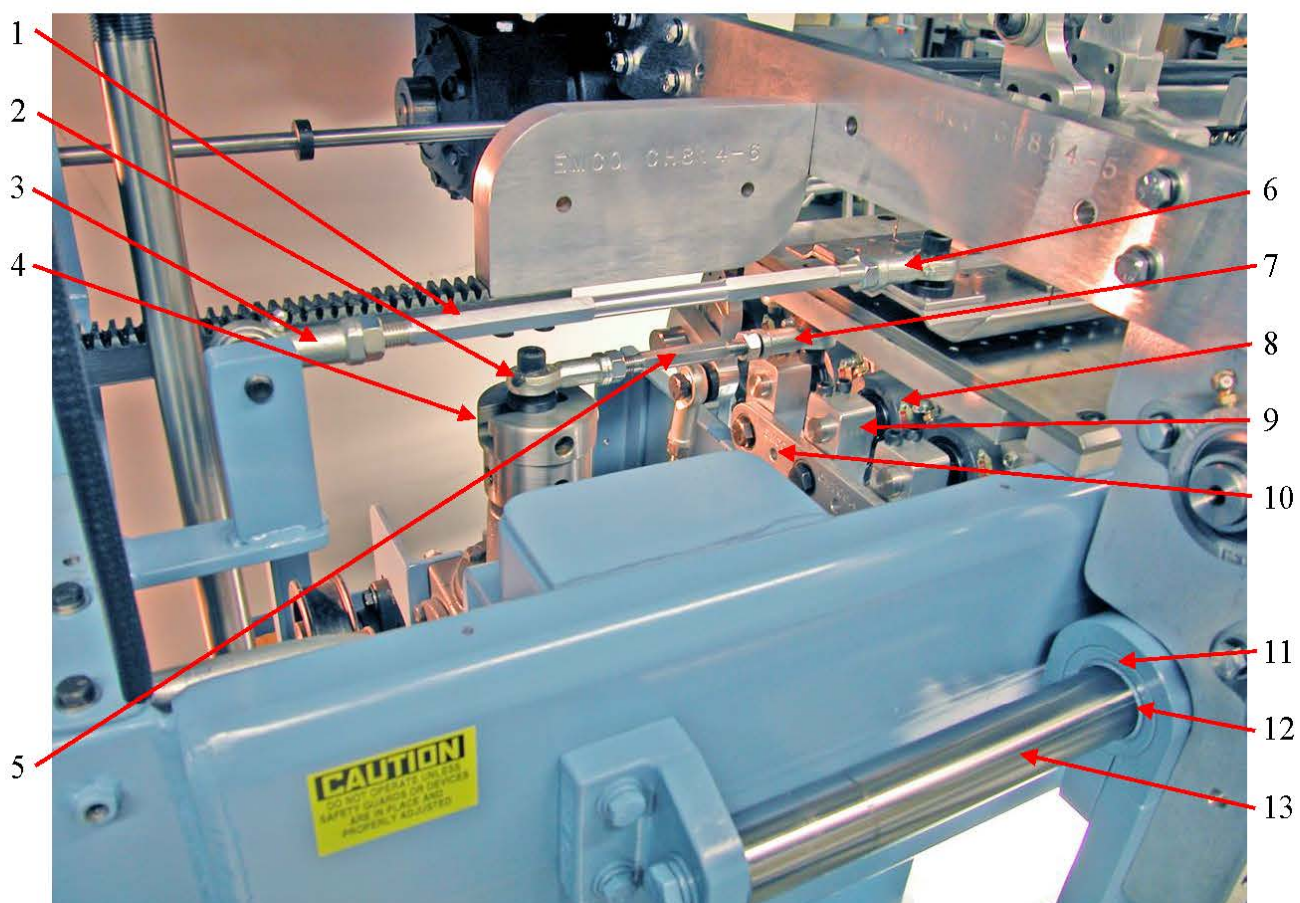
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Item #	Part #	Description
15	CH165HC	Spreader Frame and Looper Shaft Gear Box
16	CH270L100	Spreader Frame and Looper Gear Box Timing Belt, 1" Wide
17	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14
18	CH30L100x1	Spreader Frame & Looper Gear Box Timing Pulley, 1" Bushing
19	CH83L	Presser Foot Lower Drive Link, LH Thread
20	CH164A	Gear Box Timing Belt Tensioner Pulley
21	CH89 / CH89SW	Shoulder Bolt, 24mm. / Step Washer for Shoulder Bolt
22	CH164B	Belt Tensioner Mounting Angle
23	CH164C	Belt Tensioner Mount with Spindle

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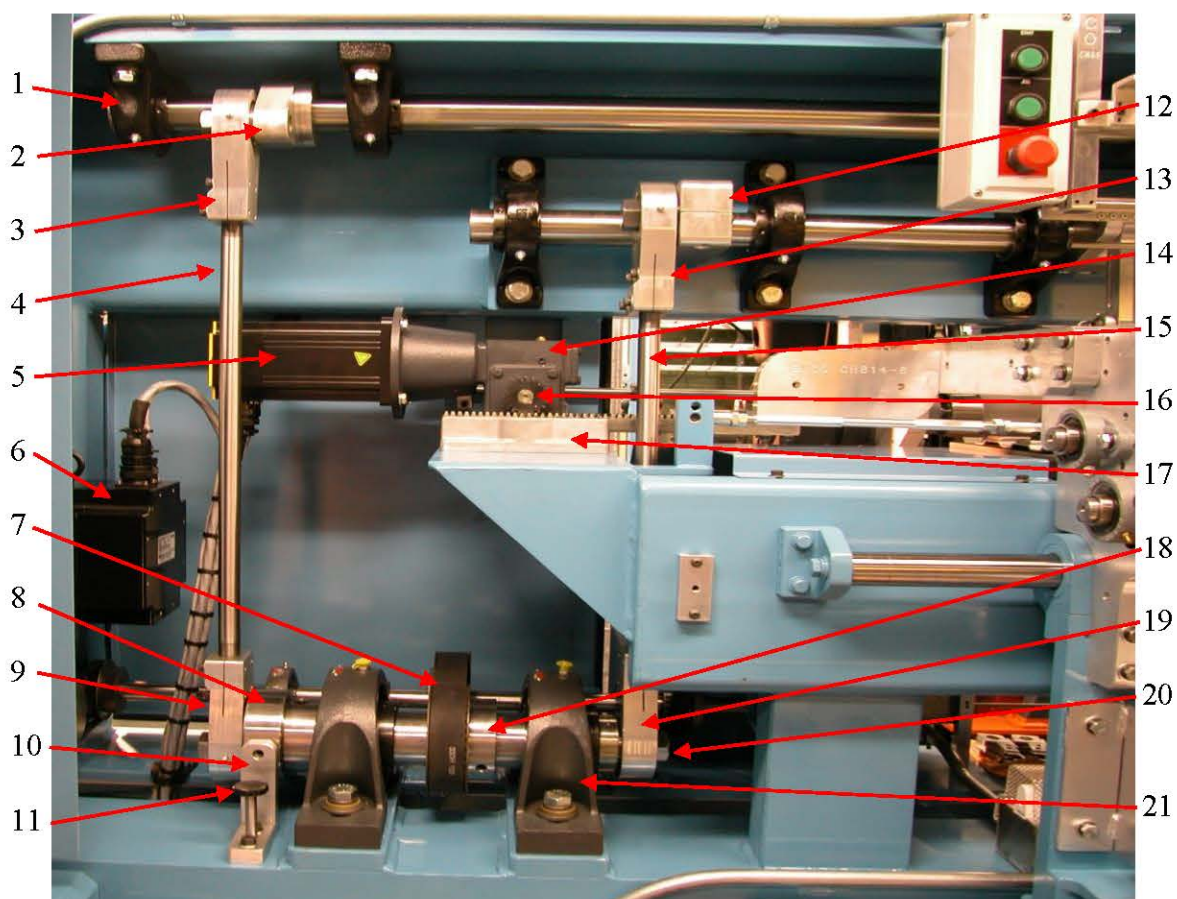


Item #	Part #	Description
1	CH69SR-P	Presser Foot Left/Right Stabilizing Rod, 12mm x 12.3/4" long
2	CH-BRF12	Spreader Frame 12mm Rod End, specify LH or RH Thread
3	CH-BRF12	12mm Rod End, specify LH or RH Thread
4	CH86-2-93	Spreader Frame Drive Crank Eccentric, Left & Right Motion
5	CH123	Spreader Frame Connecting Rod, L & R, 12mm x 6" long
6	CH-BRF12	12mm Rod End, specify LH or RH Thread
7	CH-BRF12	12mm Rod End, specify LH or RH Thread
8	CHFB12	3/4" Three Bolt Flange Bearing
9	CH100	Looper Shaft Drive Levers
10	CH105A	Looper Shaft Connecting Linkage Plate with three bearings
11	CH820	1.1/2" Shaft Seal
12	CH819	1.1/2" Linear Ball Bearing
13	CH818-14	1.1/2" x 14" long Hardened Carriage Support Shaft

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Item #	Part #	Description
1	CH-KC-55-2-1	Upper Rocker Shaft Pillow Block Bearing, 2"
2	CH63	Needles Upper Rocker Shaft Drive Lever
3	CH83-R	Needles Connecting Rod Upper Drive Link, RH
4	CH67	Needles Drive Connecting Rod, 27" long, 1"-14
5	MPM-FRME-AM	Carriage Servo Motor
6	MPM1901FRM-832	Main Shaft Servo Motor
7	CH330H200	Main Shaft Timing Belt, 1.1/2" wide
8	CH86-1-94	Needle Drive Crank Eccentric
9	CH83-L	Needles Connecting Rod Lower Drive Link, LH
10	CH-LPMB	Lock Pin Mounting Bracket for Main Shaft
11	CH-LP	Lock Pin for Main Shaft
12	CH63-93	Quick Adjust Presser Foot Lever
13	CH83-R	Presser Foot Connecting Rod Upper Drive Link, RH
14	CH181HC	Carriage Gear Box

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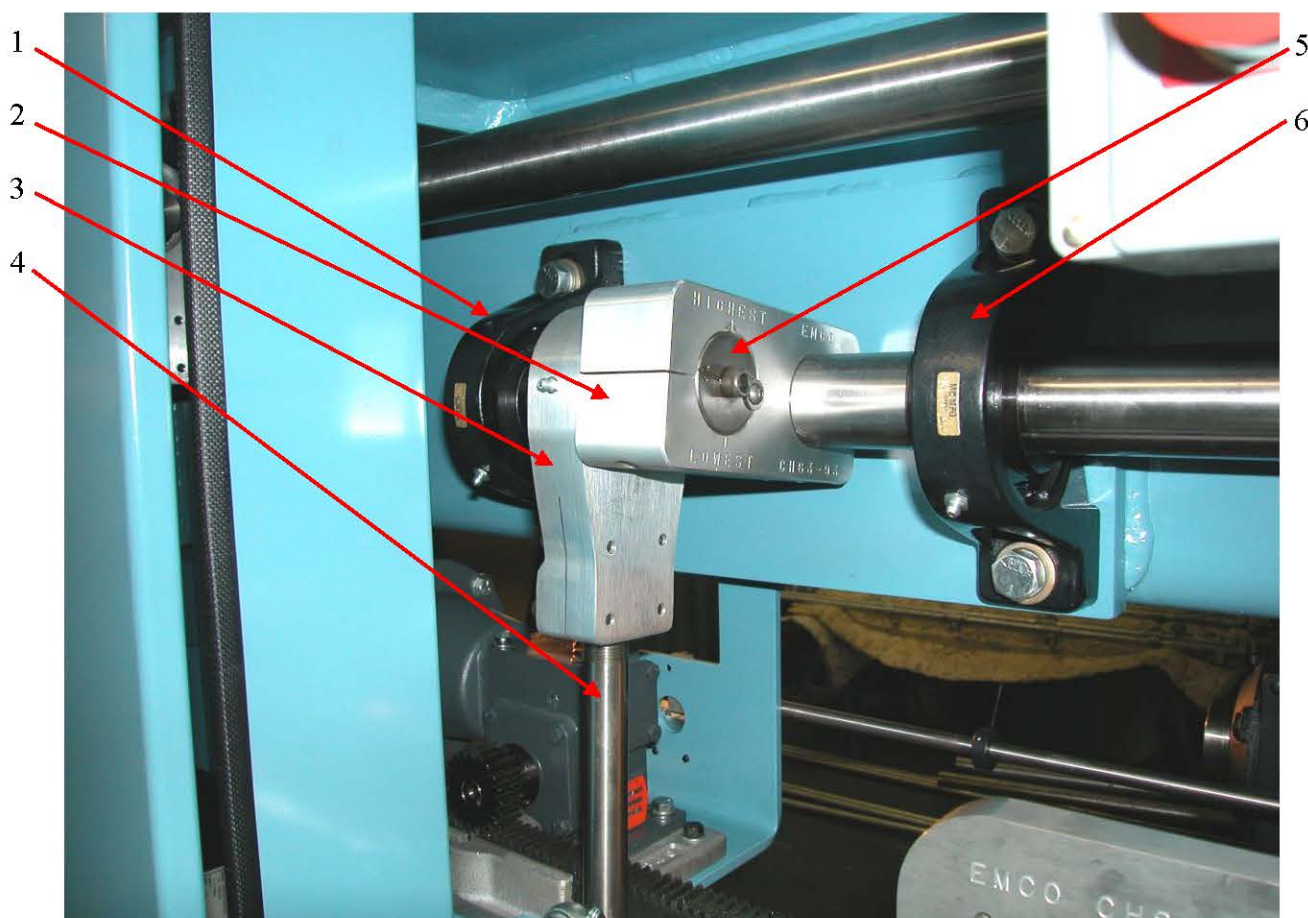
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Item #	Part #	Description
15	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14
16	CHSS10F20	Carriage Gear Box Spur Gear, with 3/4" bore and keyway
17	CH840	Carriage Gear Box and Rack Gear Mounting Plate
18	CH1044-2	Main Shaft Timing Pulley with 3" Bore
19	CH83-L	Presser Foot Connecting Rod Lower Drive Link, LH
20	CH89 / CH89SW	Shoulder Bolt, 24mm. / Step Washer for Shoulder Bolt
21	CHMPD48	Main Shaft Pillow Block Bearing, 3"

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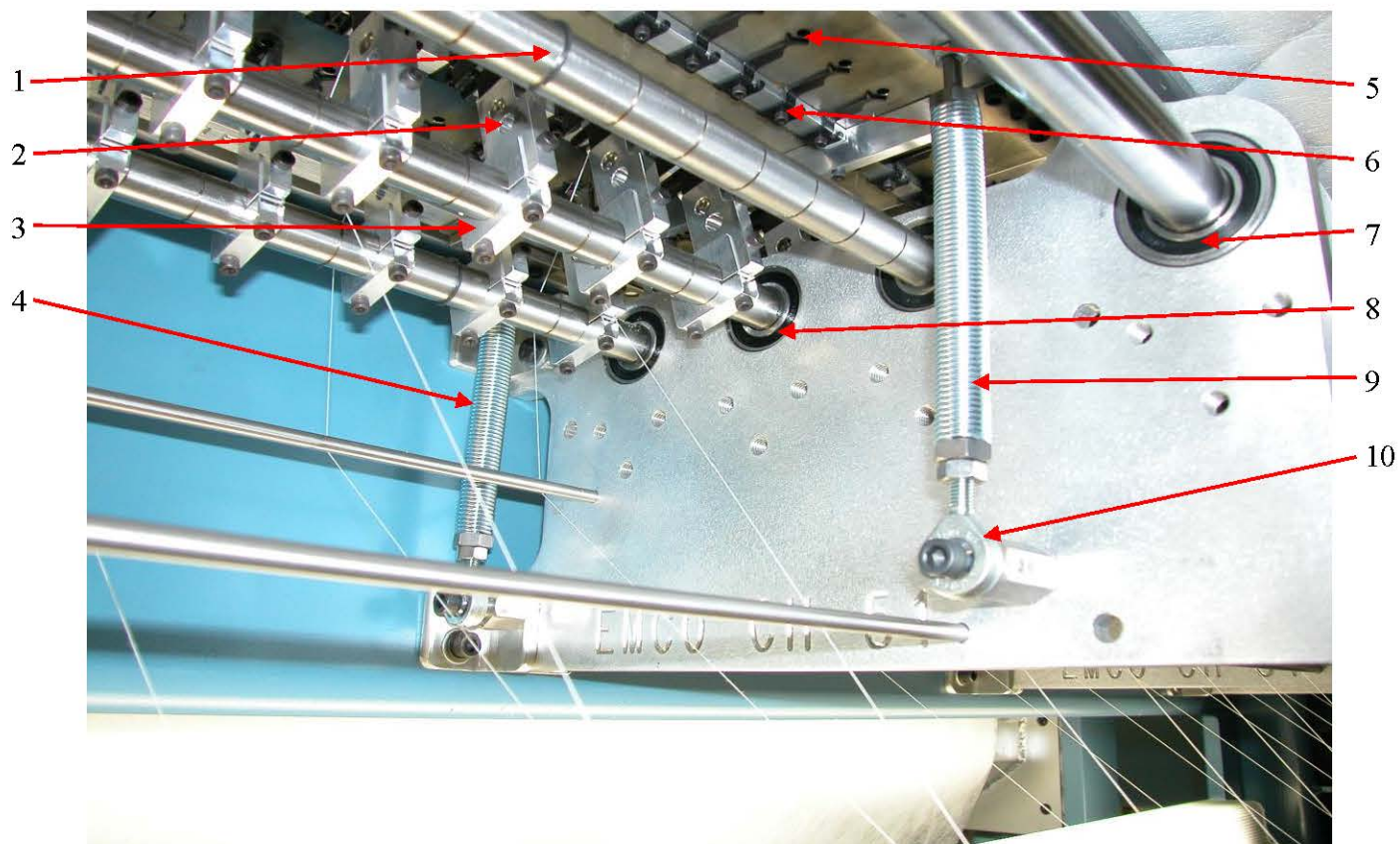


Item #	Part #	Description
1	CH-KC-55-2-1	Upper Rocker Shaft Pillow Block Bearing, 2"
2	CH63-94	Presser Foot Quick Adjust Drive Lever
3	CH83-R	Presser Foot Connecting Rod Upper Drive Link, RH
4	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14
5	CH63-94-P-062	Eccentric Plug for Presser Foot Quick Adjust Lever
6	CH-KC-55-2-1	Upper Rocker Shaft Pillow Block Bearing, 2"
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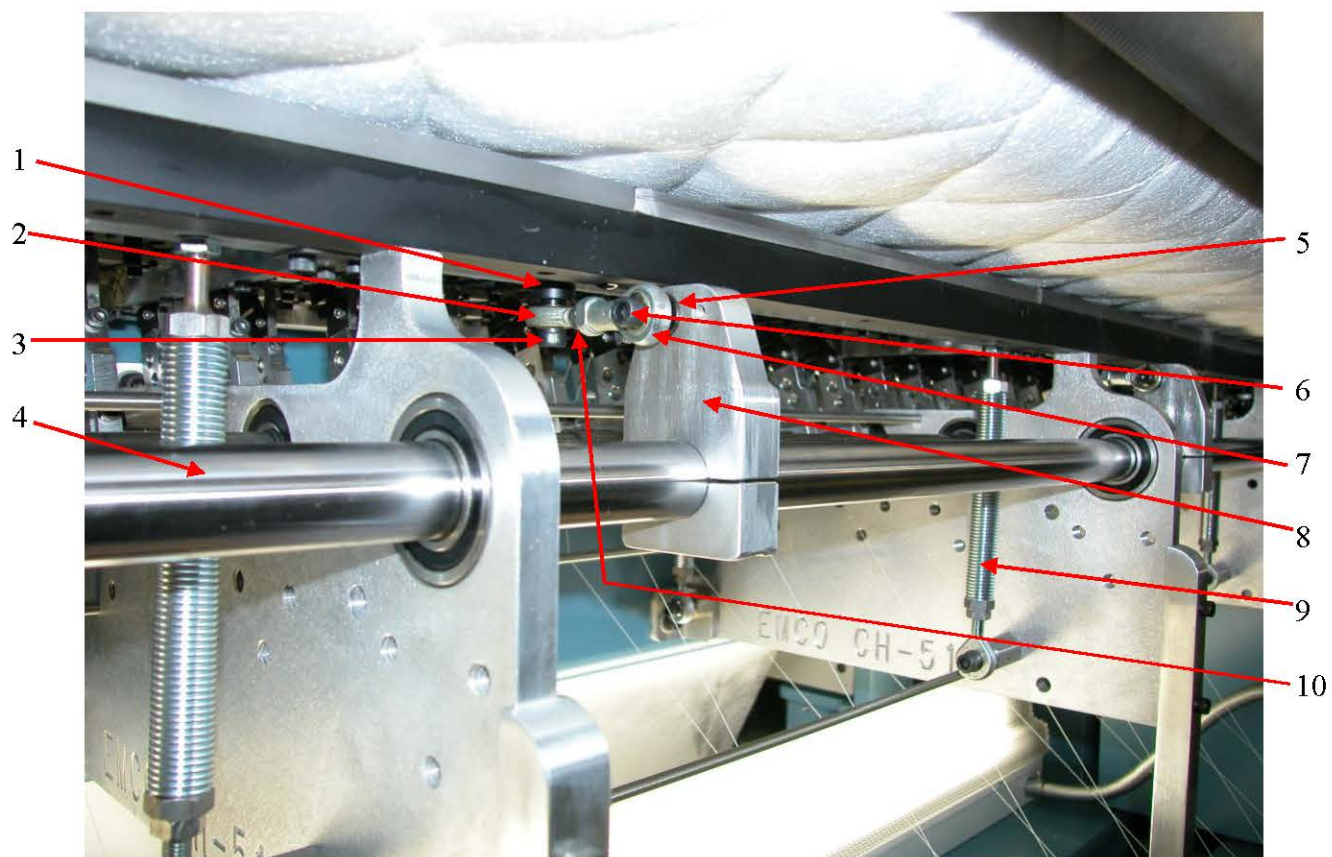


Item #	Part #	Description
1	CH45-CR	Looper Shaft "C" Rings, for positioning the loopers on the shafts.
2	CH43	Looper Block
3	CH42	Looper Saddle, 2 parts, sold as a pair
4	CH38SF	Spreader Frame Front Support Spring
5	CH46	Spreader
6	CH46S	6-32 Torx Socket Head Screw for Spreader
7	CH2	1" Spreader Frame Drive Shaft Bearing
8	CHR12VV	3/4" Looper Shaft Bearing
9	CH38SR	Spreader Frame Rear Support Spring
10	CHBEM8L	Male Rod End, 8mm., LH
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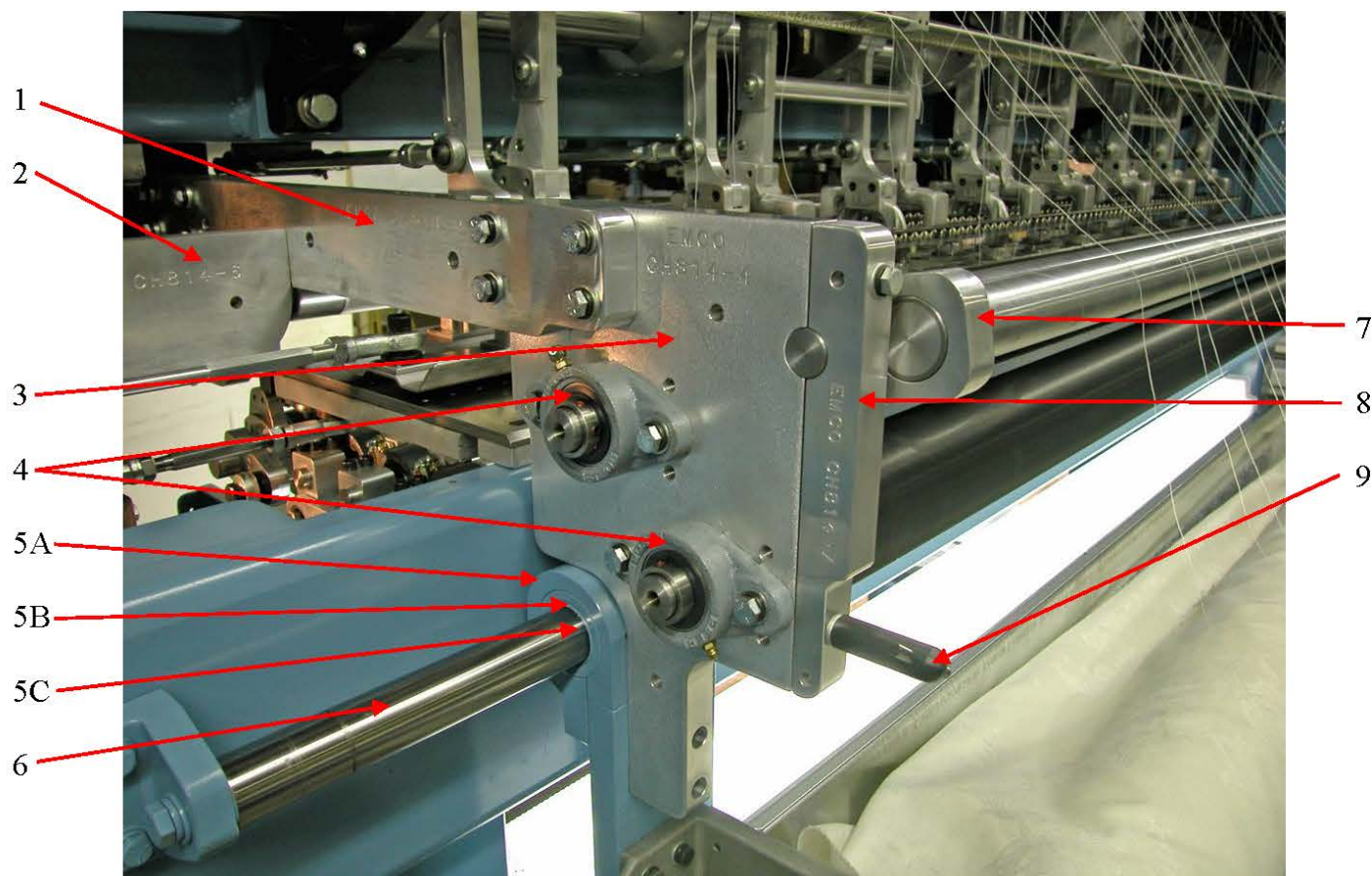


Item #	Part #	Description
1	CH4SW	6mm Step Washer
2	CHBRM6	6mm Rod End, Male RH Thread
3	CH4S	6mm x 30mm Socket Head Screw
4	CH1DS	1 inch hardened Drive Shaft, Spreader Frame Secondary Drive Shaft
5	CH3SW	6mm Step Washer
6	CH3S	6mm x 25mm Socket Head Screw
7	CHBRF6	6mm Rod End, Female RH Thread
8	CH101	Secondary Spreader Frame Drive Lever
9	CH38SR	Spreader Frame Rear Support Spring
10	CH5	Not Visible, 6mm Nut for Rod End
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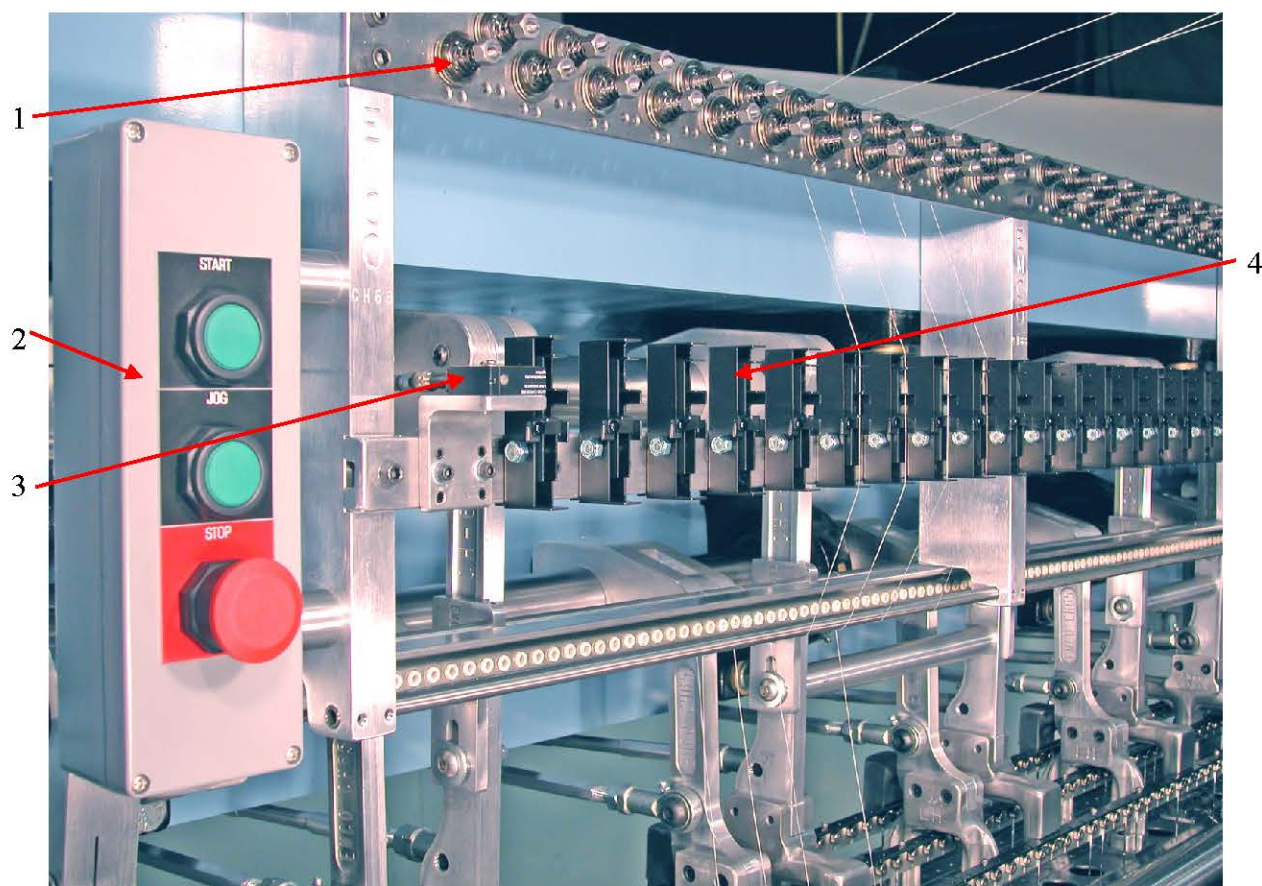


Item #	Part #	Description
1	CH814-5	Carriage Cross Over Bar
2	CH814-6	Carriage Push Bracket
3	CH814-4	Front Guide Rollers Mounting Plate
4	CH514	1" Flange Bearings, two bolt style
5A	CH813	Front Carriage 1.1/2" Bearing Support Housing
5B	CH820	1.1/2" Shaft Seal
5C	CH819	1.1/2" Linear Ball Bearing
6	CH818-14	1.1/2" x 14" long Hardened Carriage Support Shafts
7	CH489-B	Top Cloth Tensioning Bars, specify length
8	CH814-7	Top Cloth Tensioning Bars Clamping Block
9	CH491	Top Cloth Tensioning Bars Clamping Block Handle
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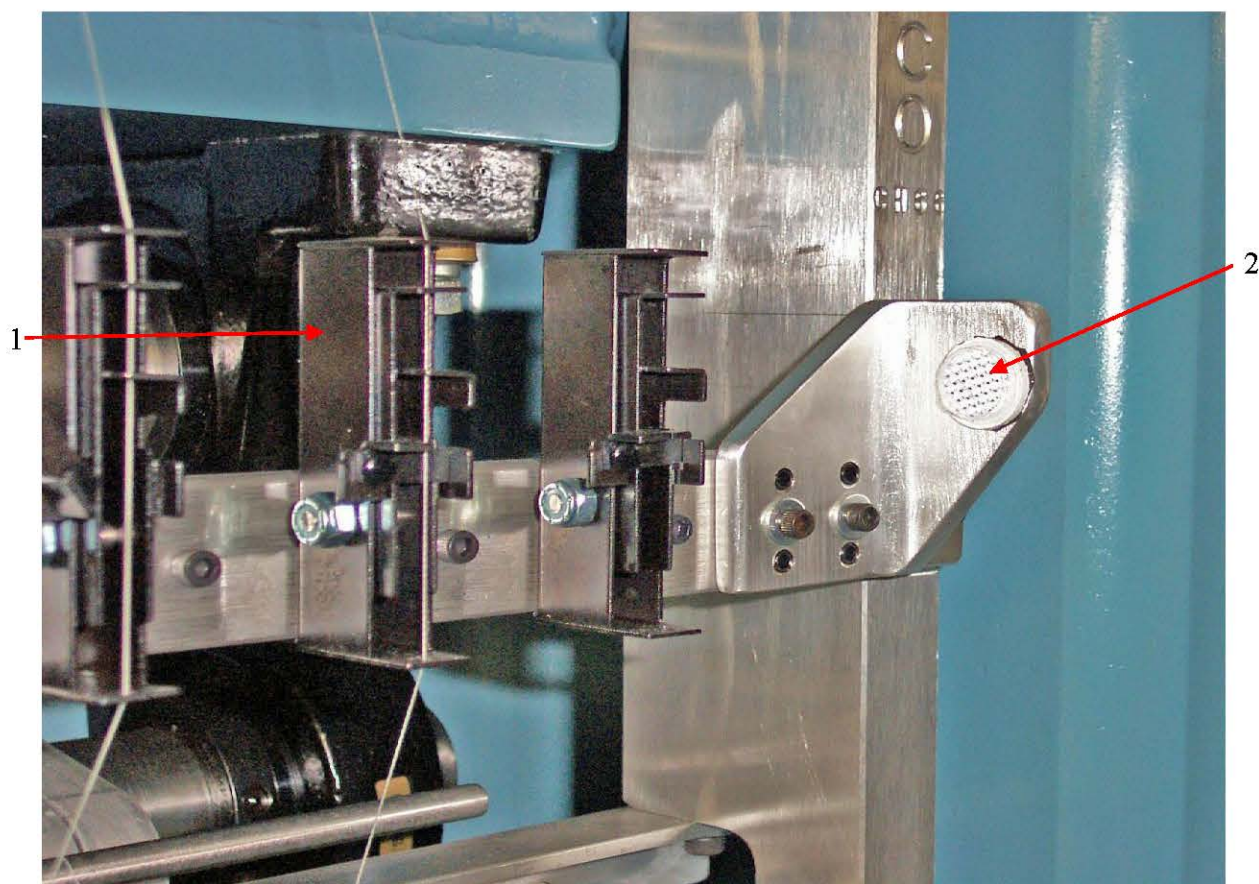


Item #	Part #	Description
1A	CH420N	Tensioner Nut
1B	CH420S	Tensioner Stud
1C	CH421	Tensioner Discs, 2 each
1D	CH422	Tensioner Spring
1E	CH423	Thread Tensioner Bar Assembly, specify length and # of holes
2	CH800T3TZ	Three Button Station, Start/Jog/Stop, complete
3	CH2000J	Broken Thread Detector Laser Sensor
4	CH2000U	Broken Thread Detector Units
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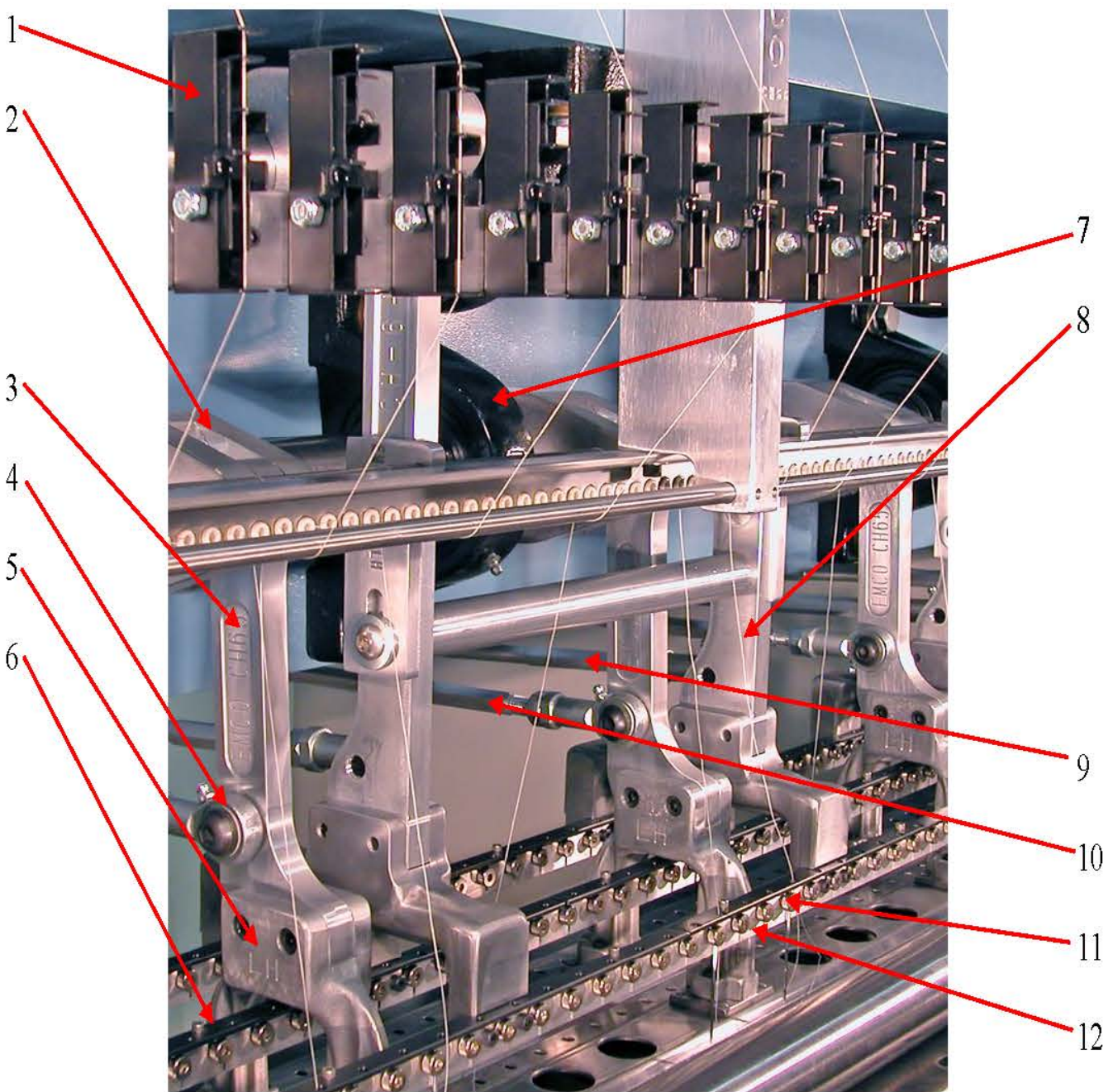


Item #	Part #	Description
1	CH2000U	Broken Thread Detector Unit
2	CH2000I	Laser Reflector
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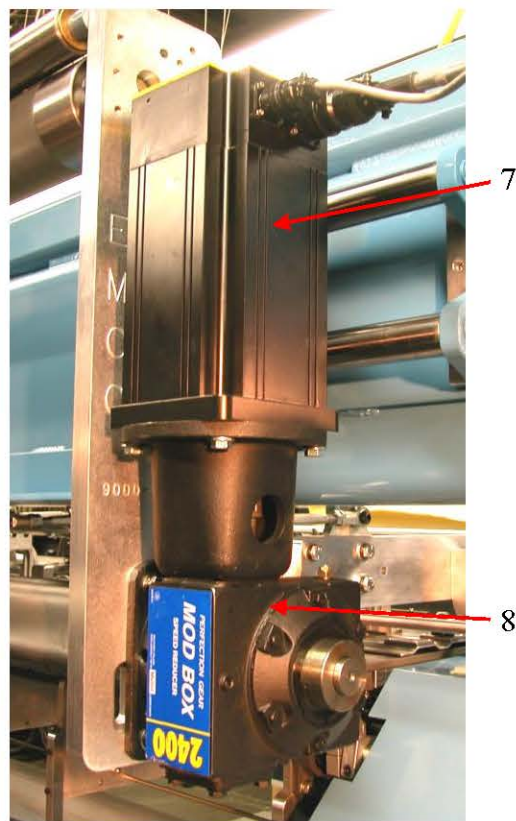
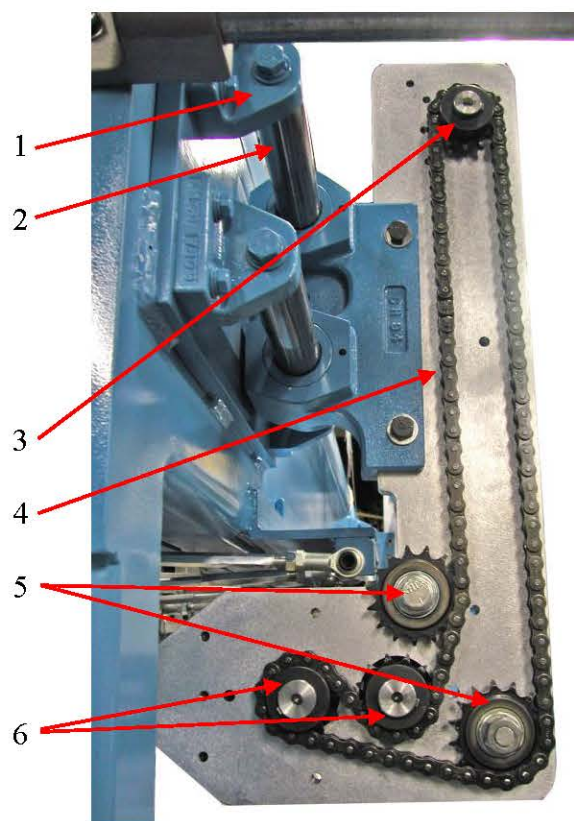


Item #	Part #	Description
1	CH2000U	Broken Thread Detector Unit
2	CH62	Needle and Presser Foot Top Rocker Shaft Levers
3	CH65	Presser Foot Lift Link
4	CH69	Female Rod End, 12mm, specify RH or LH thread
5	CH550	Presser Foot Bridge, specify RH or LH
6	CH299	Hardened Needle Bar Thread Eyelet Bar, specify length and location on which needle bar
7	CH-KC55-2-1	Needle and Presser Foot Top Rocker Shaft Bearings, 2 inch
8	CH64	Needle Bar Lift Link
9	CH69-SR-N	Needle Bar Stabilizing Rod, 12mm, 12.3/4 inches long
10	CH69-SR-P	Presser Foot Stabilizing Rod, 12mm., 11.3/4 inches long
11	CH414NT	New Type Needle Bar Screws
12	CH898-45AL	Needle Bar 45 inches long, Aluminum
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Item #	Part #	Description
1	CH7809	Carriage Support bracket
2	CH818-14	1.1/2 x 14" long hardened carriage support shaft
3	CH50B12x1	50B12 x 1 inch Sprocket
4	CH50RC	#50 Roller Chain, specify length
5	CH50BB15H	#50 Idler Sprockets with bearing
6	CH50B12x1.3/16	50B12 x 1.3/16 inch Sprocket
7	CHNB1421-FRM-416	Feed Roll Drive AC Servo Motor
8	CHMKACH2490-19	Feed Roll Gear Box, Hollow Shaft, 1.3/16"
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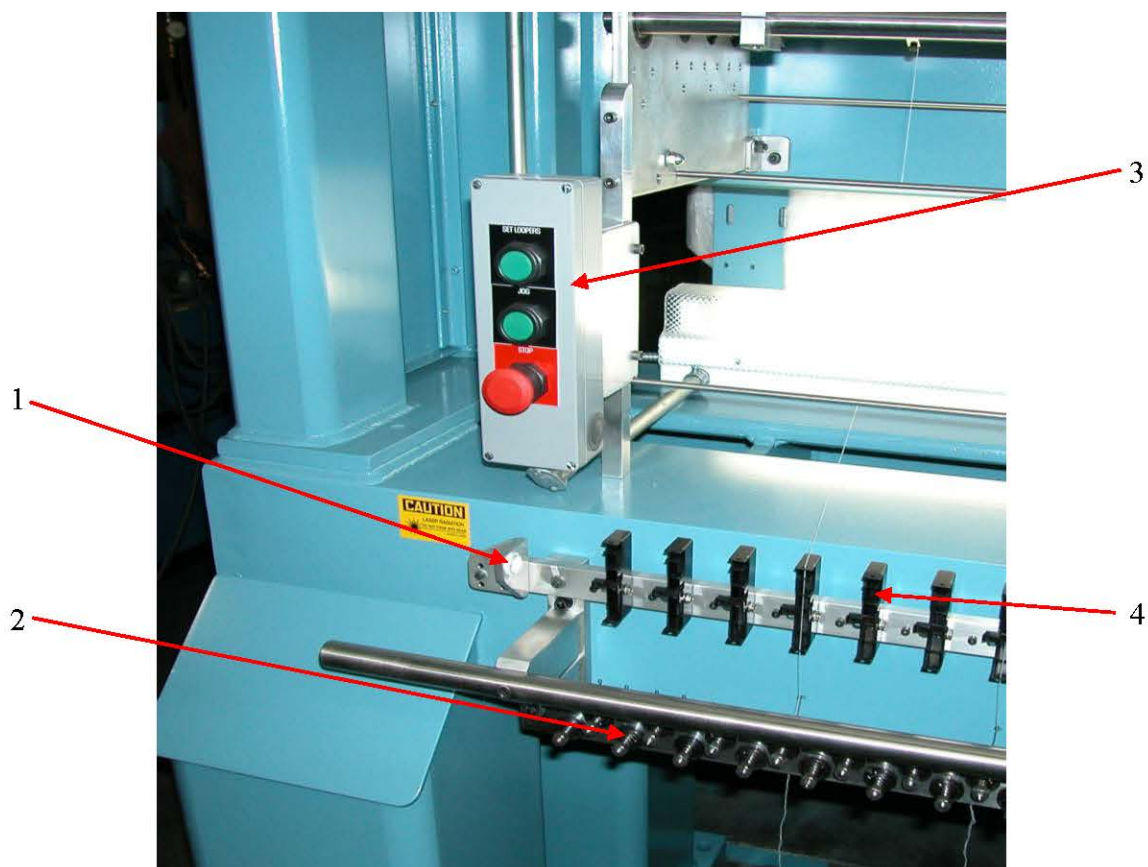


Item #	Part #	Description
1	CH2000U	Broken Thread Detector Unit
2A	CH420N	Tensioner Nut
2B	CH420S	Tensioner Stud
2C	CH421	Tensioner Discs, 2 each
2D	CH422	Tensioner Spring
2E	CH423	Thread Tensioner Bar Assembly, specify length and # of holes
3	CH800T3TZ	Three Button Station, Set Looper/Jog/Stop, complete
4	CH2000J	Broken Thread Detector Laser Sensor
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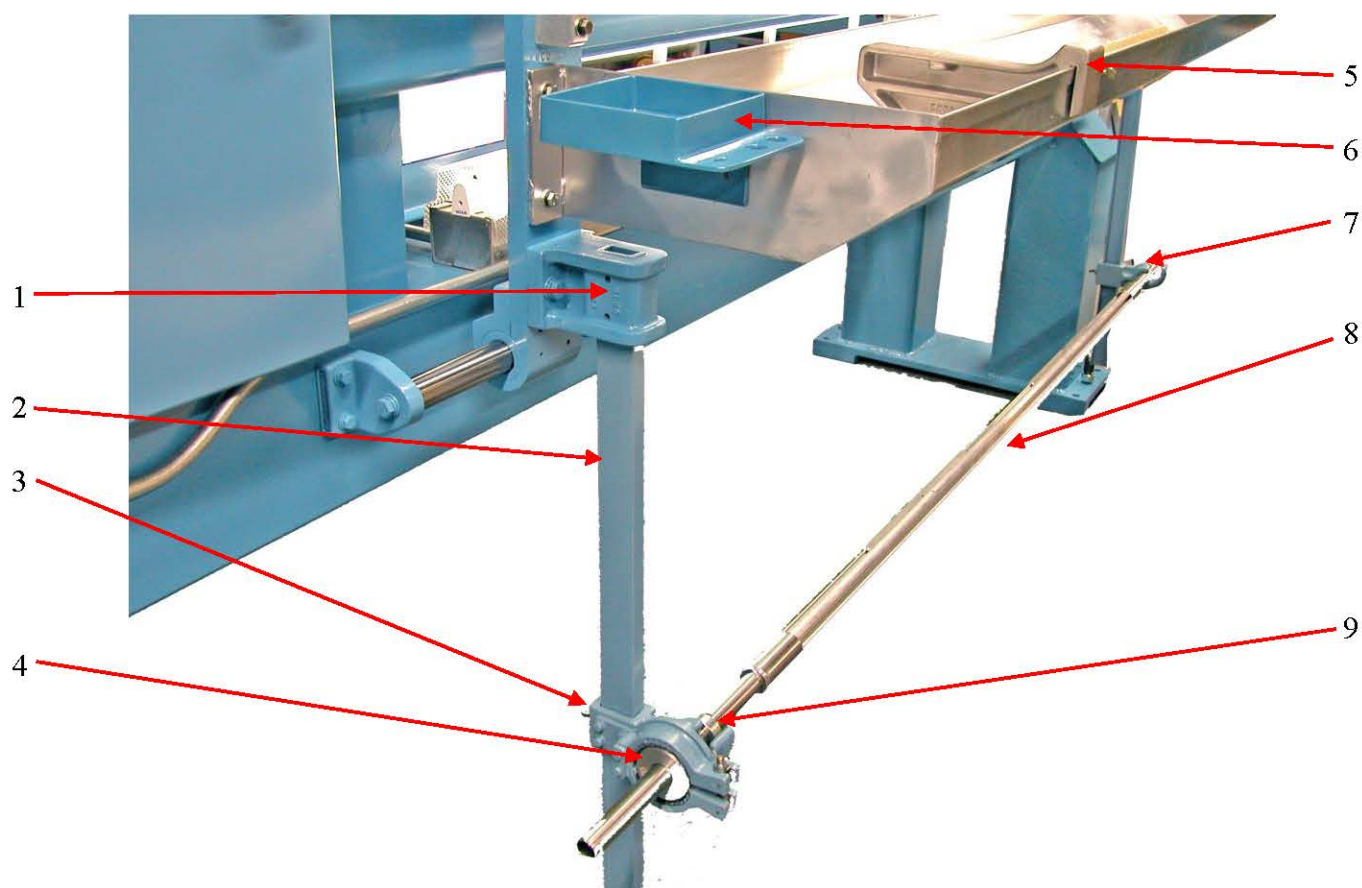


Item #	Part #	Description
1	CH2000I	Broken Thread Laser Sensor Reflector
2A	CH420N	Tensioner Nut
2B	CH420S	Tensioner Stud
2C	CH421	Tensioner Discs, 2 each
2D	CH422	Tensioner Spring
2E	CH423	Thread Tensioner Bar Assembly, specify length and # of holes
3	CH800T3TZ	Three Button Station, Set Looper/Jog/Stop, complete
4	CH2000U	Broken Thread Detector Unit
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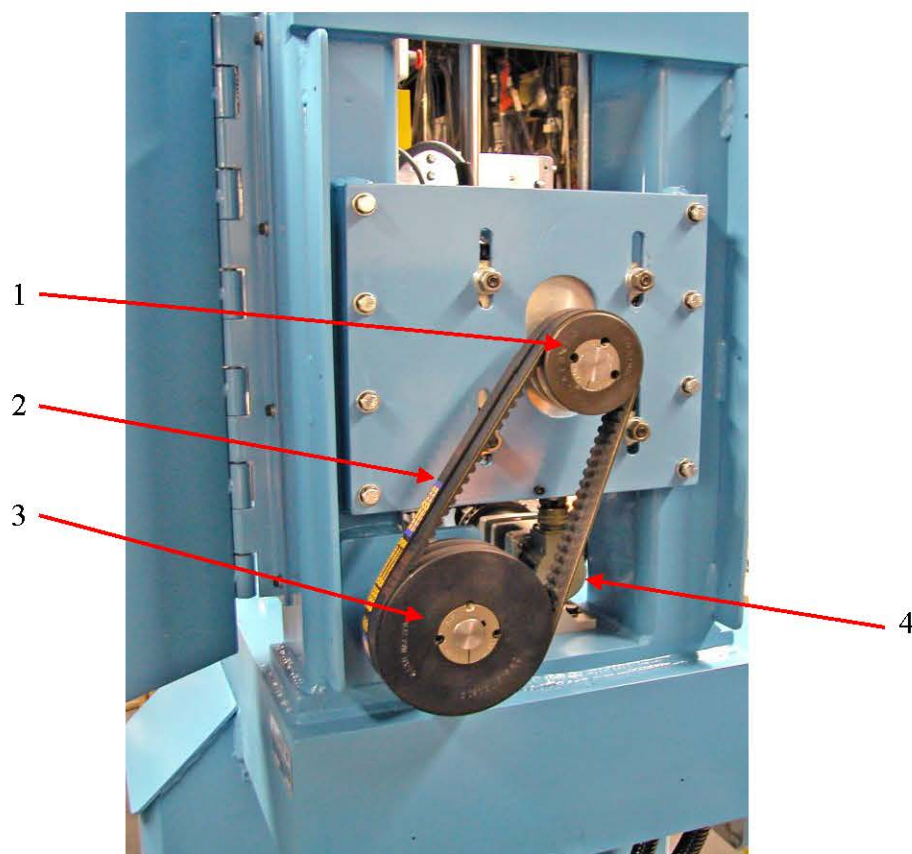


Item #	Part #	Description
1	CH18	Front Arm Support Bracket
2	CH339S	2 inch Channel Front Arm
3	CH7389NT	Grip Roller Brake Assembly for channel arm
4	CH945	Brake Hub for Grip Roller
5	483-NT (LH)	Feed Trough Baffle (Left Hand Shown) specify left or right
6	CH339S	Tool Tray
7	CH3367	Grip Roller Hook for channel arm
8	CH318NT	2 inch Grip Roller, specify length of body of grip roller
9	CH318C	1.1/4" Shaft Collar
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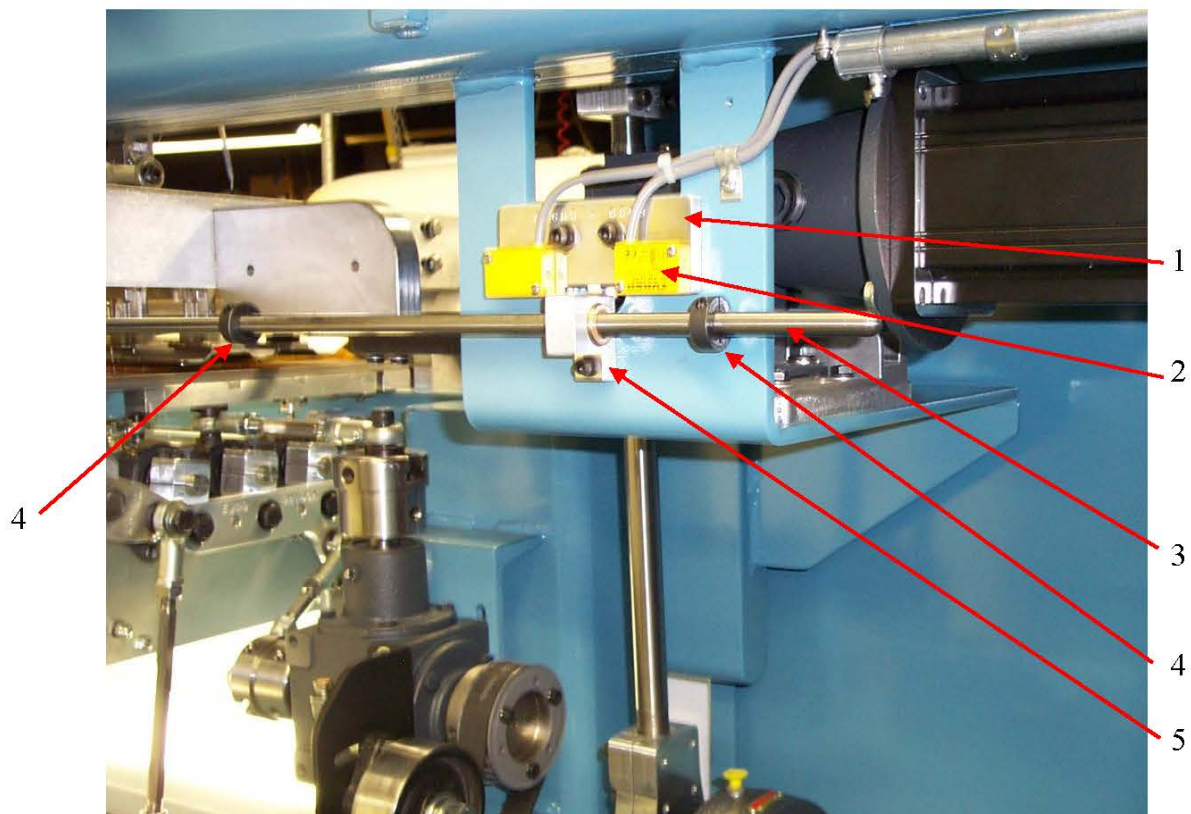


Item #	Part #	Description
1	CH2B34TB1210	Double Sheave Pulley with Bushing
2	CHBX35	"V" Belts, (x2)
3	CH2B6.0TB1610	Double Sheave Pulley with Bushing
4	CHHA625	Main Shaft (Needles) Encoder
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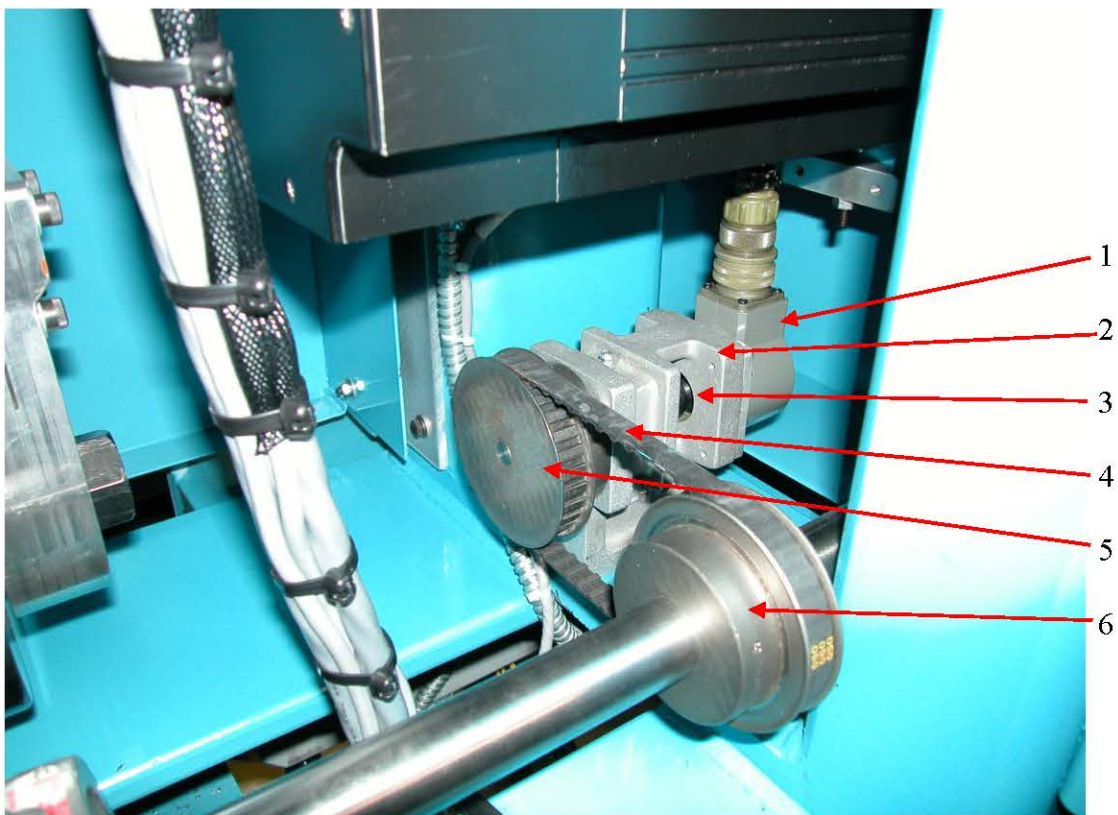


Item #	Part #	Description
1	CH952	Proximity Switch (Limit Switch) mounting plate
2	CH7905	Proximity Switch (Limit Switch), (x2)
3	CH7906	1/2" x 28.1/2" long, limit switch rod
4	CH7906-C	1/2" collars for limit switches, (x2)
5	CH7906RS	1/2" Rod Support
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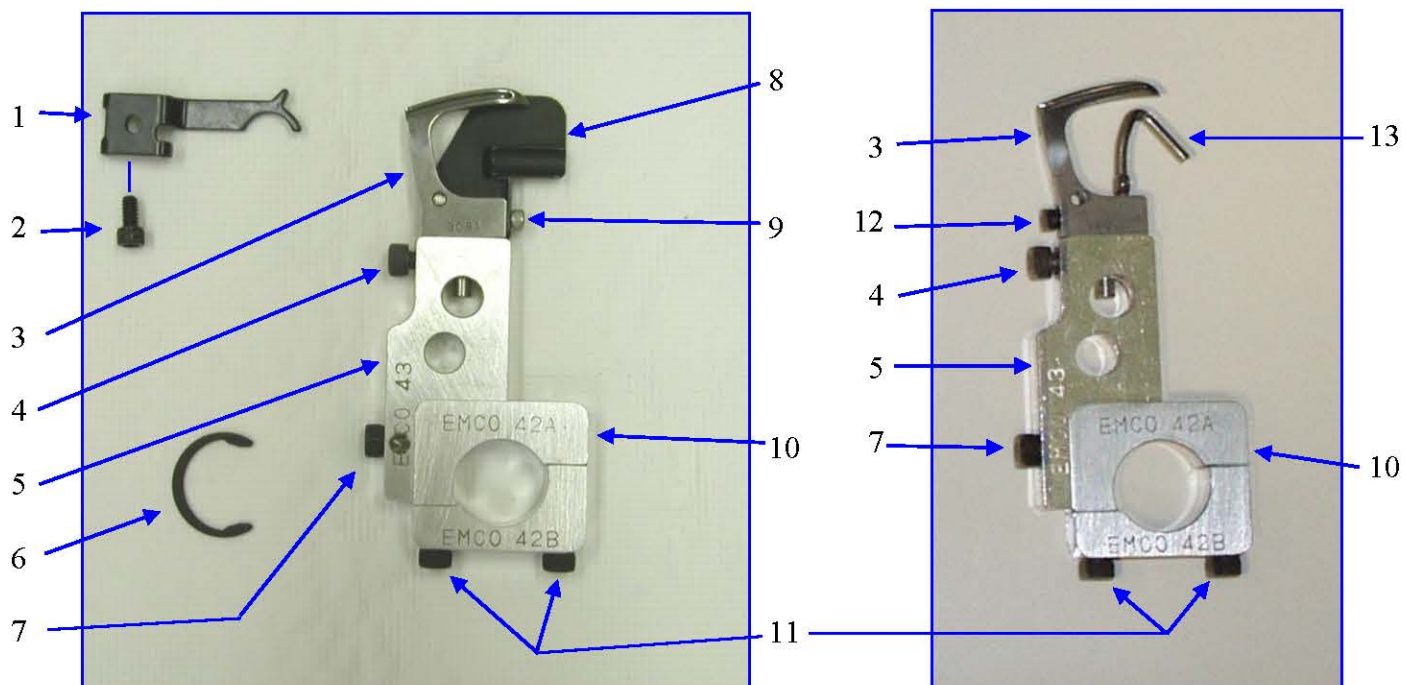


Item #	Part #	Description
1	CHHA625	Main Shaft (Needles) Encoder
2	CH1181	Encoder Mounting Bracket
3	CH1157EC	Encoder Coupling, 3/8" x 1/2"
4	CH225L050	Encoder Timing Belt
5	CH30L050x1/2	Encoder Timing Pulley, 1/2" Bore
6	CH30L050x1.3/16	Encoder Timing Pulley, 1.3/16" Bore
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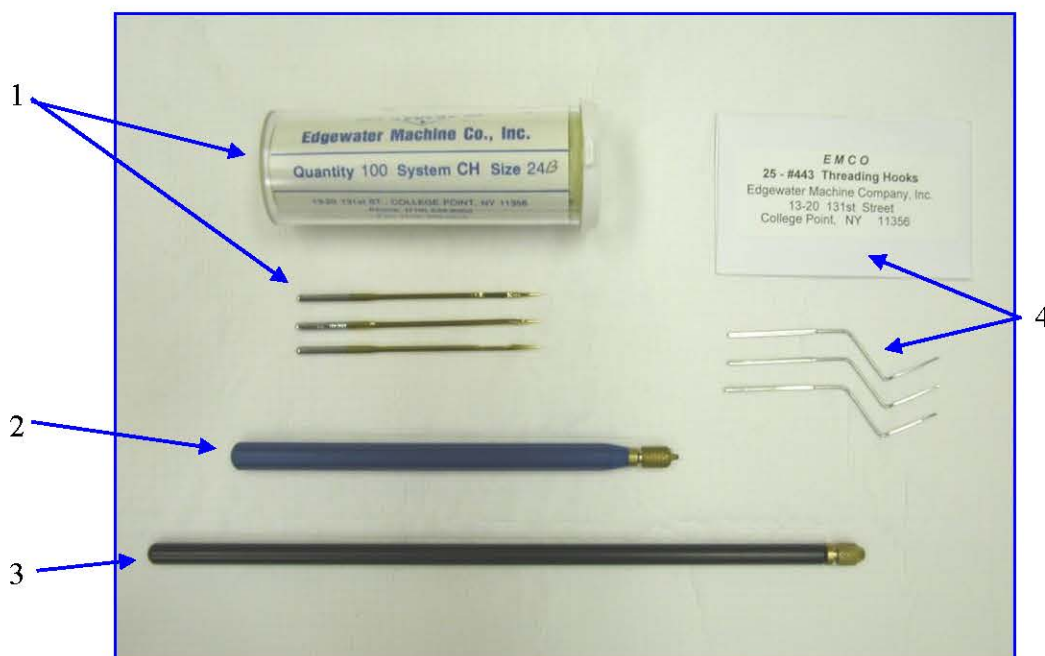


Item #	Part #	Description
1	CH46	Spreader
2	CH46S	6-32 Torx Socket Head Cap Screw for Spreader
3	CH3091	Looper
4	CH832x38DP	8-32 x 3/8" long, Socket Head Cap Screw, Dog Point
5	CH43	Looper Block
6	CH45-CR	Looper Shaft "C" Ring for positioning loopers on shaft
7	CH832x58	8-32 x 5/8" long Socket Head Cap Screw
8	CH3092N	New Type Needle Shield
9	CH440NSS	4-40 x 3/16" long Needle Shield Screws, (x2)
10	CH42A&B	Looper Saddle, 2 parts, sold as a pair
11	CH832x1	8-32 x 1" long Socket Head Cap Screw
12	CH440SHC	4-40 x 1/2" Socket Head Cap Screw
13	CH3092SNG	Alternate Needle Guard
14		

**Order Parts by Part #, not Item #, please include the description.
Always include Model # and Serial # of machine when ordering parts.**

Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.

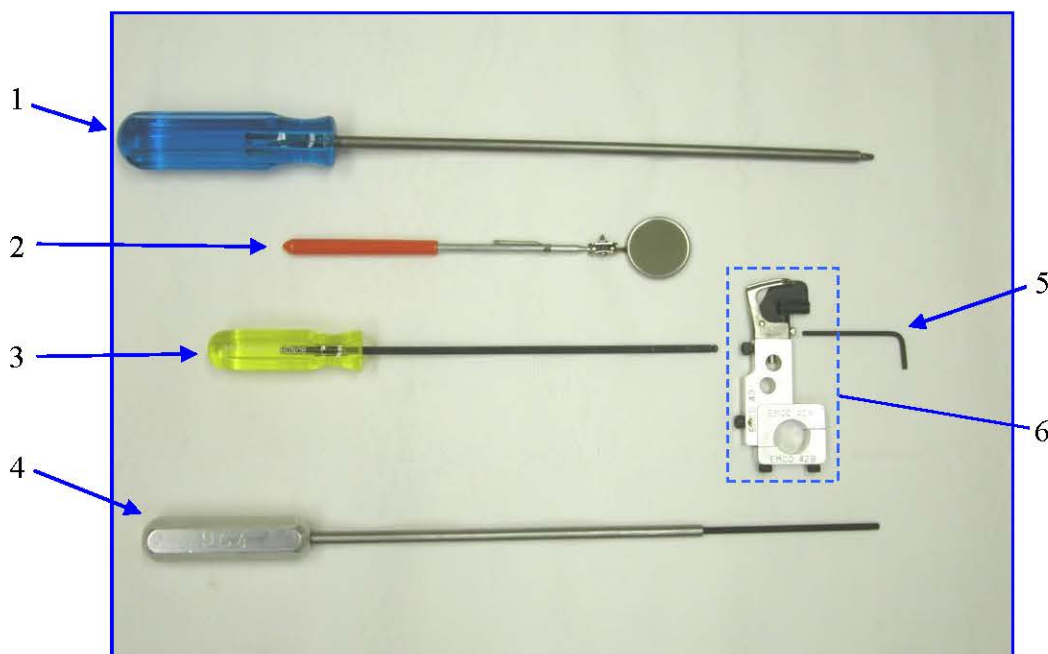


Item #	Part #	Description
1	CH24B	Chainstitch Needles
2	CH443-H-S	Short Threading Hook Handle
3	CH443-H-L	Long Threading Hook Handle
4	CH443	Package of 25 Threading Hooks
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		

**Order Parts by Part #, not Item #, please include the description.
Always include Model # and Serial # of machine when ordering parts.**

Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.

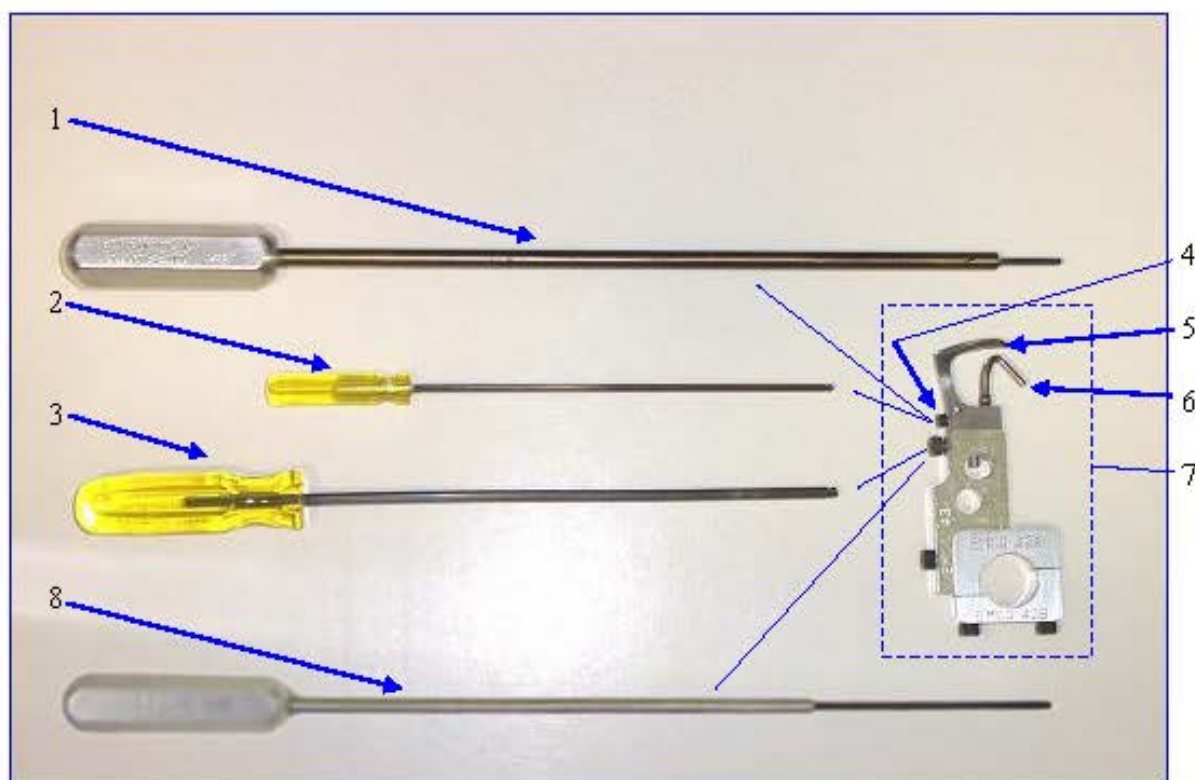


Item #	Part #	Description
1	CHT15XL	Extra Long #15 Torx Driver for Spreader Screws
2	CHTIM	Inspection Mirror
3	CHT964S	Standard Length 9/64" Ball Tip Hex Driver
4	CHT964L	Long Length 9/64" Ball Tip Hex Driver
5	CHT332	Standard 3/32" Hex Key
6	CH3093	Complete Looper Assembly, specify type of needle shield
7		
8		
9		
10		
11		
12		
13		
14		

**Order Parts by Part #, not Item #, please include the description.
Always include Model # and Serial # of machine when ordering parts.**

Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.

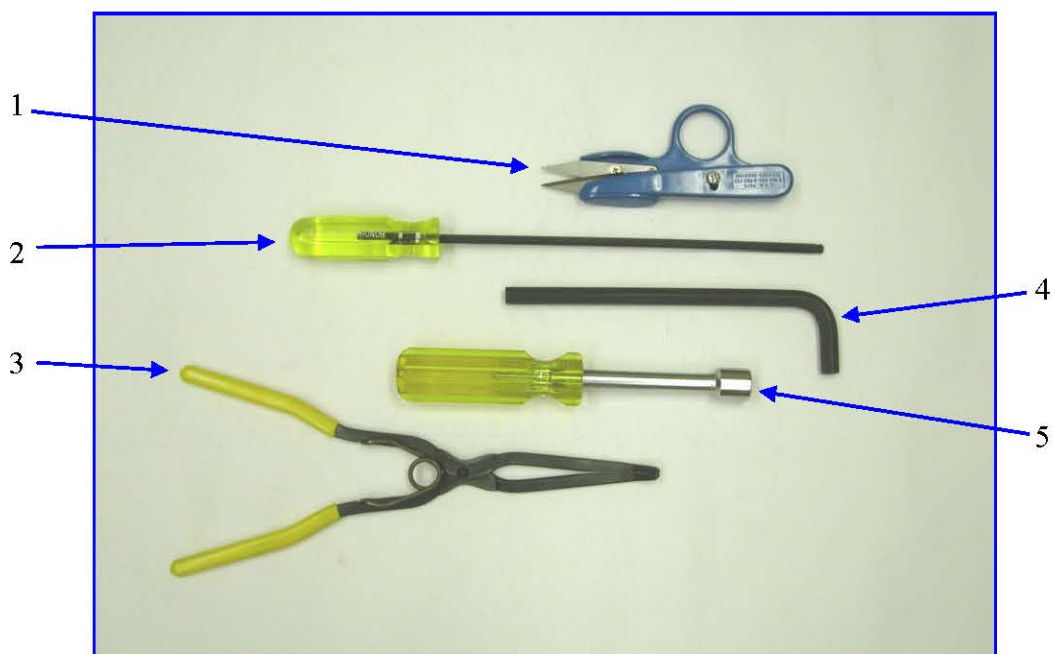


Item #	Part #	Description
1	CHT332XL	Extra Long 3/32" Ball Tip Hex Driver
2	CHT332S	Standard Length 3/32" Ball Tip Hex Driver
3	CHT964S	Standard Length 9/64" Ball Tip Hex Driver
4	CH440SHC	4-40 x 1/2" Socket Head Cap Screw
5	CH3091	Looper
6	CH3092SNG	Alternate Needle Guard
7	CH3093WSNG	Complete Looper Assembly with Alternate Needle Guard
8	CHT964L	Long Length 9/64" Ball Tip Hex Driver
9		
10		
11		
12		

**Order Parts by Part #, not Item #, please include the description.
Always include Model# and Serial# of machine when ordering parts.**

Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.



Item #	Part #	Description
1	CHTSS	Snip Scissors
2	CHT532	Standard Length 5/32" Ball Tip Hex Driver for Needle Screws
3	CHTNP	Needle Pliers
4	CHT516L	Long 5/16" Hex Key, used to adjust Quick Adjust Presser Foot Lever
5	CHT716ND	7/16" Nut Driver for Thread Tensioners
6		
7		
8		
9		
10		
11		
12		

**Order Parts by Part #, not Item # , please include the description.
Always include Model # and Serial # of machine when ordering parts.**

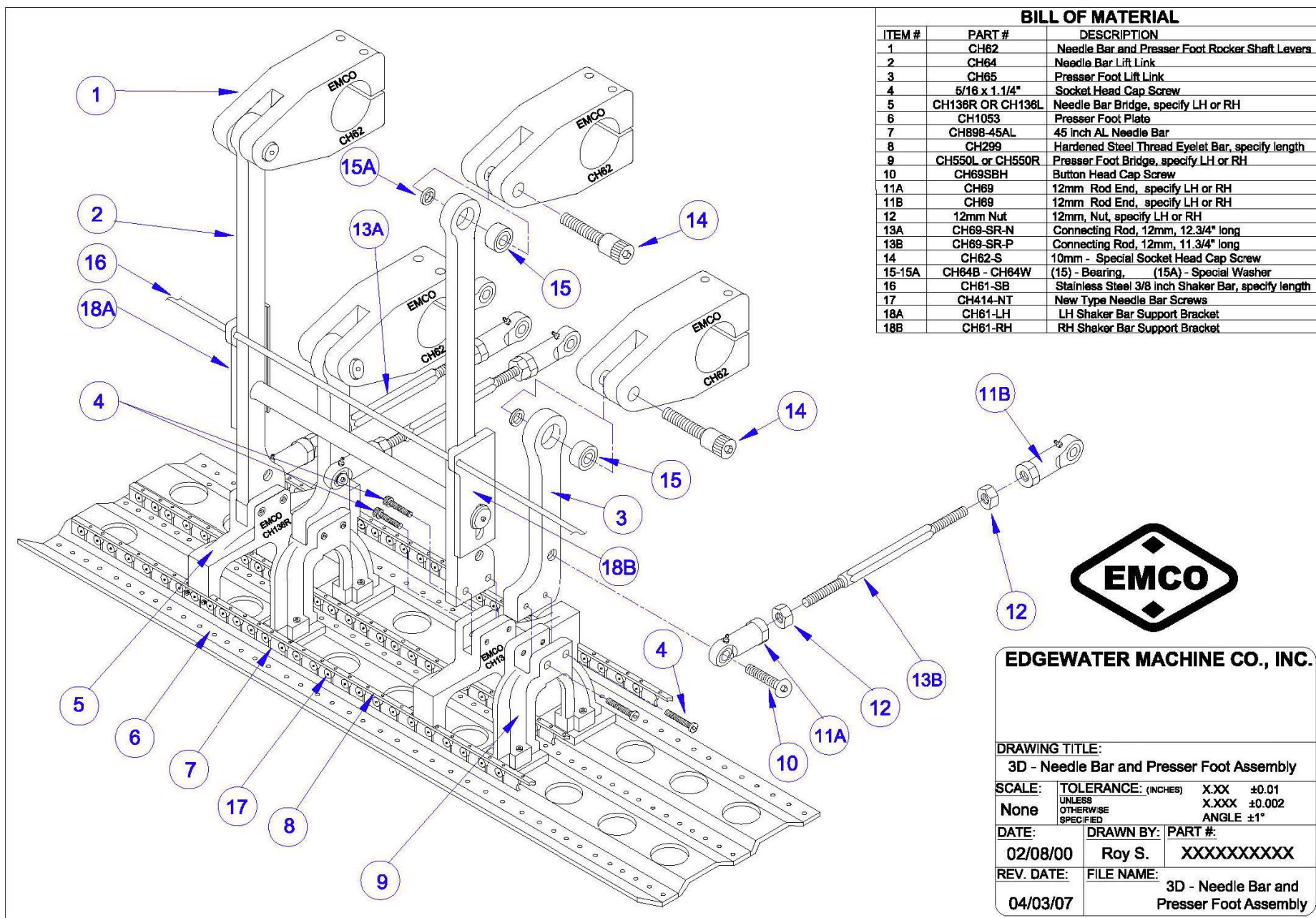
Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.



Item #	Part #	Description
1	CHTGG	Grease Gun
2	NEEDLE NOZZLE	Needle Type Nozzle for 6mm Rod Ends
3	CHTOG	High Performance Synthetic Grease
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		

**Order Parts by Part #, not Item # , please include the description.
Always include Model # and Serial # of machine when ordering parts.**



M #	PART #	DESCRIPTION
	CH2000H	THREAD DETECTOR MOUNTING BAR
	CH2000U	THREAD DETECTOR UNIT
	CH2000K	THREAD DETECTOR MOUNTING SCREW 8-32 x 3/8" SOCKET HEAD CAP SCREW
	CH2000I	LASER REFLECTOR
	CH2000LB	POLARIZED LASER BEAM SENSOR
	CH2000L	3/8" STAINLESS STEEL THREAD GUIDE ROD
	CH2000M	THREAD TENSIONER BAR COMPLETE
	CH2000N	THREAD EYELET ANGLE W/ PORCELAIN EYELETS
	CH66	THREAD BREAK BAR ASSEMBLY UPRIGHTS
	CH2000CA	COMPLETE THREAD BREAK BAR ASSEMBLY, (COMPLETE PICTURE SHOWN BELOW)

**THREAD BREAK DETECTOR
MOUNTING BAR ASSEMBLY**

EMCO

EDGEWATER MACHINE CO., INC.

DRAWING TITLE:
THREAD DETECTOR MOUNTING BAR ASSEMBLY

SCALE: TOLERANCE: (INCHES) X.XX ±0.01
NONE UNLESS OTHERWISE SPECIFIED X.XXX ±0.005
ANGLE ±1°

DATE: 01/08/01 **DRAWN BY:** ROY S. **CHECKED BY:**

REV. DATE: 08/06/07 **FILE NAME:** 3D THREAD DETECTOR MOUNTING BAR ASSY.



EDGEWATER MACHINE CO., INC.

DRAWING TITLE:

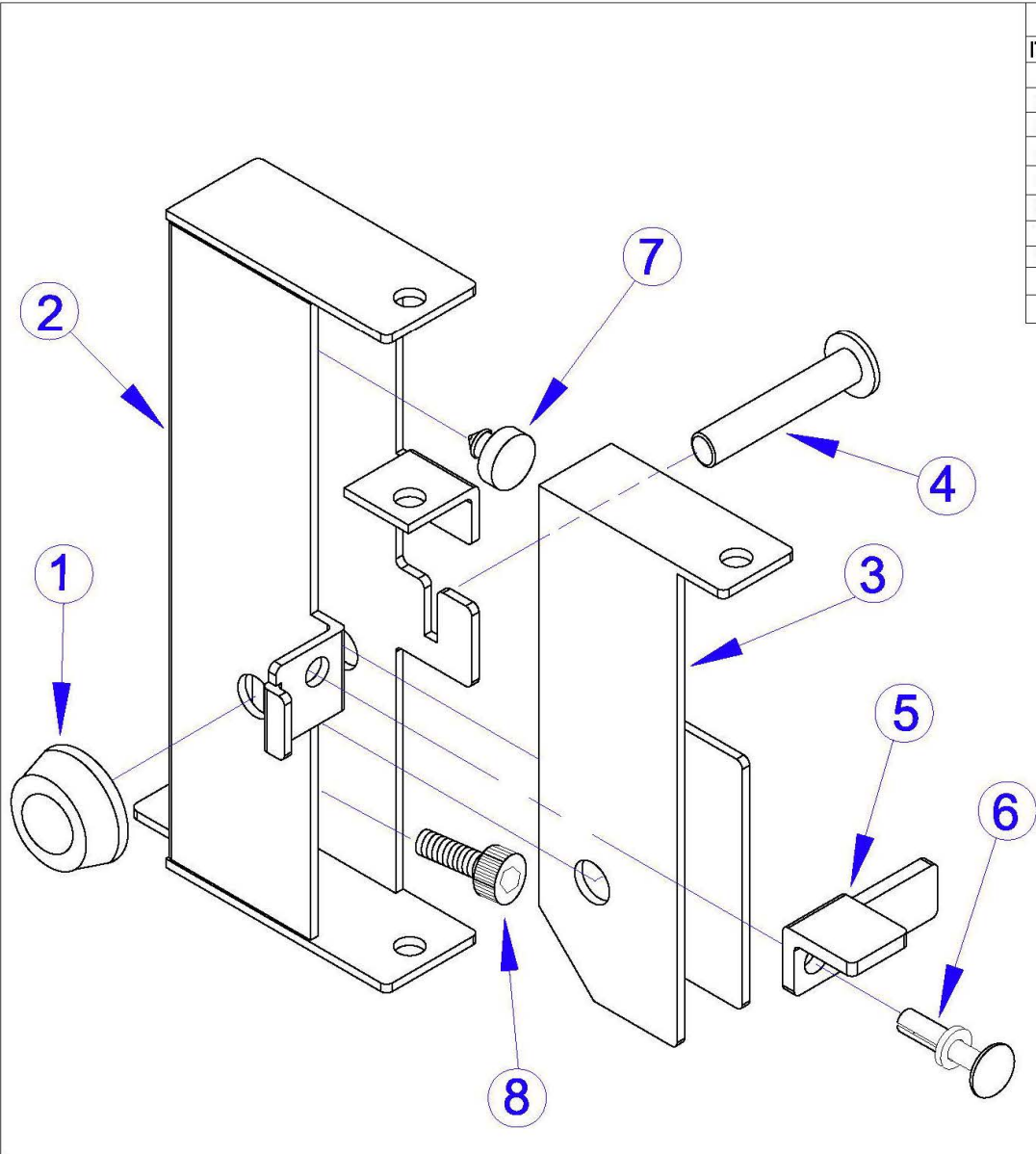
THREAD DETECTOR MOUNTING BAR ASSEMBLY

SCALE:	TOLERANCE: (INCHES)	X.XX	±0.01
NONE	UNLESS OTHERWISE SPECIFIED	X.XXX	±0.005
		ANGLE	±1°

DATE:	DRAWN BY:	CHECKED BY:
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01/08/01	ROY S.
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REV. DATE:	FILE NAME:
08/06/07	3D THREAD DETECTOR MOUNTING BAR ASSY

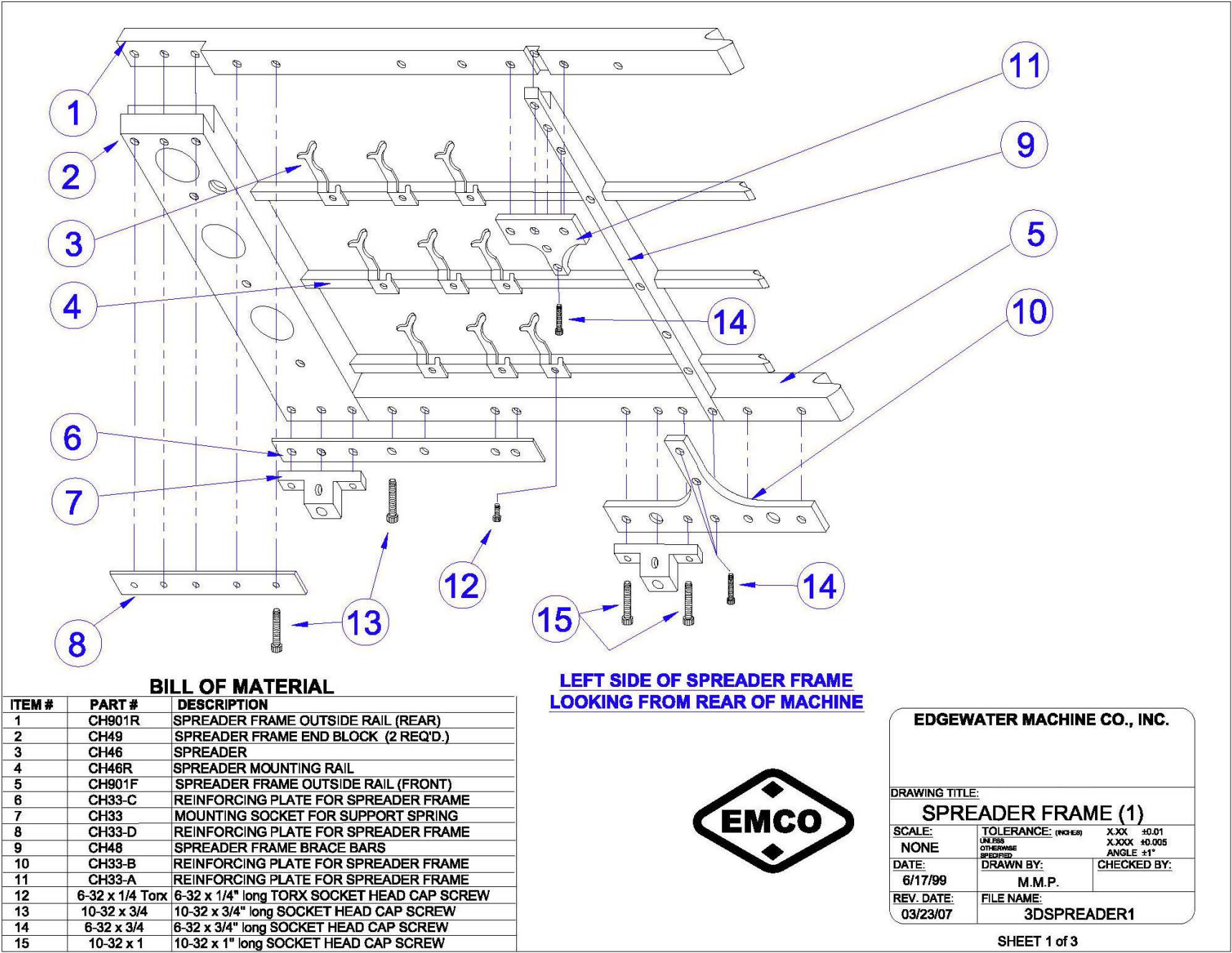


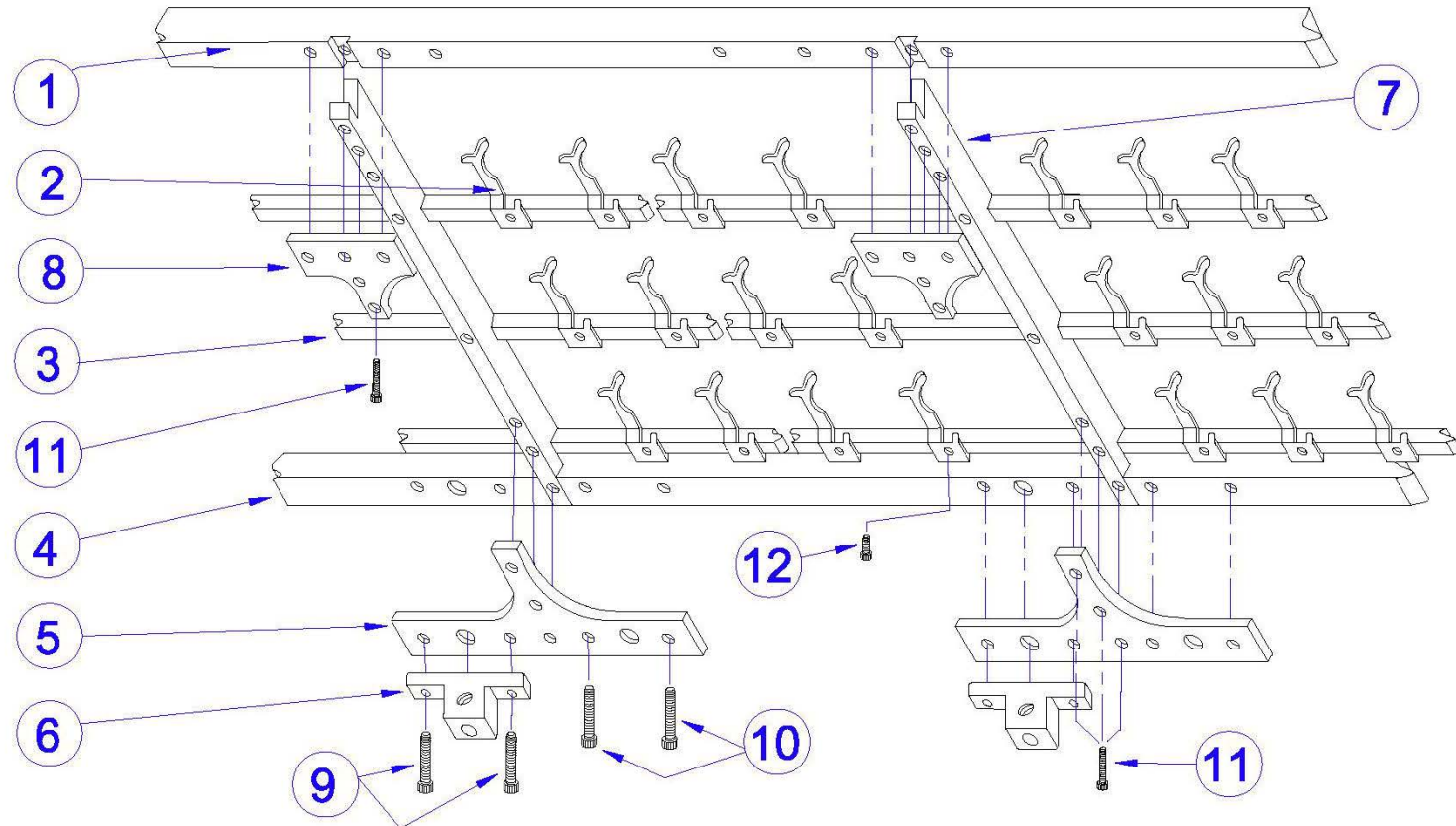
BILL OF MATERIAL		
ITEM #	PART #	DESCRIPTION
1	CH2000E	3/16" PUSH CAP NUT
2	CH2000A	THREAD DETECTOR BODY
3	CH2000B	THREAD DETECTOR SWING ARM
4	CH2000D	3/16" x .750" HARDENED CLEVIS PIN
5	CH2000C	SWING ARM GATE
6	CH2000F	GATE RIVET
7	CH2000G	RUBBER CUSHION
8	CH2000J	8-32 x 3/8" S.H. CAP MOUNTING SCREW
	CH2000U	COMPLETE ASSEMBLED UNIT



EDGEWATER MACHINE CO., INC.

DRAWING TITLE:		
CH2000U - Thread Detector Assembly		
SCALE:	TOLERANCE: (INCHES)	X.XX ±0.01
NONE	UNLESS OTHERWISE SPECIFIED	X.XXX ±0.003
DATE:	DRAWN BY:	Part #:
08/02/02	Roy S.	CH2000U
REV. DATE:	FILE NAME:	
08/02/02	Thread Detector Assembly	





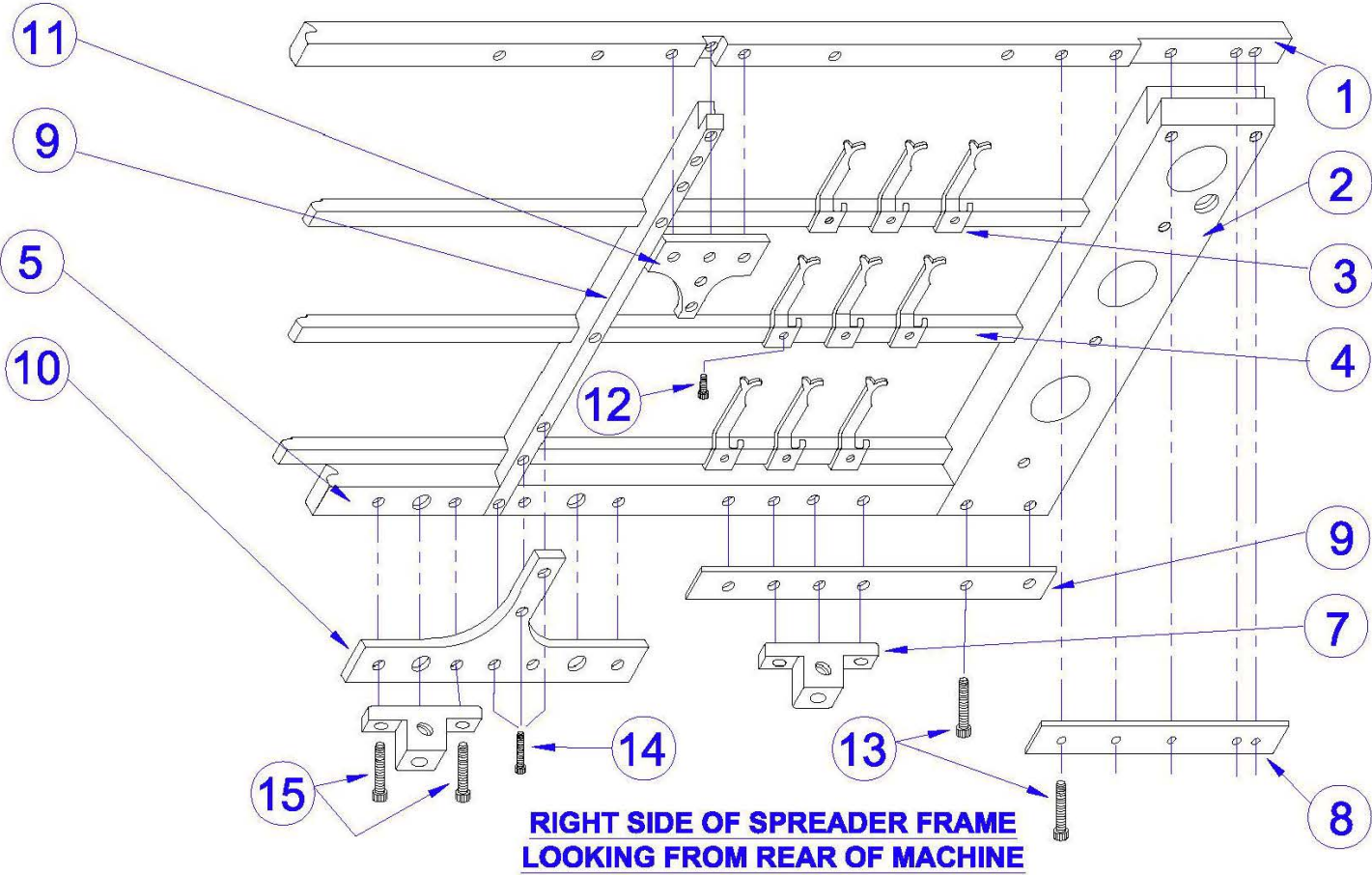
**CENTER SECTION OF SPREADER FRAME
LOOKING FROM REAR OF MACHINE**

BILL OF MATERIAL

ITEM #	PART #	DESCRIPTION
1	CH901R	SPREADER FRAME OUTSIDE RAIL (REAR)
2	CH46	SPREADER
3	CH46R	SPREADER MOUNTING RAIL
4	CH901F	SPREADER FRAME OUTSIDE RAIL (FRONT)
5	CH33-B	REINFORCING PLATE FOR SPREADER FRAME
6	CH33	MOUNTING SOCKET FOR SUPPORT SPRING
7	CH48	SPREADER FRAME BRACE BARS
8	CH33-A	REINFORCING PLATE FOR SPREADER FRAME
9	10-32 x 1	10-32 x 1" long SOCKET HEAD CAP SCREW
10	10-32 x 3/4	10-32 x 3/4" long SOCKET HEAD CAP SCREW
11	6-32 x 3/4	6-32 x 3/4" long SOCKET HEAD CAP SCREW
12	6-32 x 1/4 Torx	6-32 x 1/4" long TORX SOCKET HEAD CAP SCREW



EDGEWATER MACHINE CO., INC.		
DRAWING TITLE:		
SPREADER FRAME (2)		
SCALE:	TOLERANCE: (INCHES)	
NONE	UNLESS OTHERWISE SPECIFIED	XXX ±0.01 XXX ±0.005 ANGLE ±1°
DATE:	DRAWN BY:	CHECKED BY:
6/17/99	M.M.P.	
REV. DATE:	FILE NAME:	
03/23/07	3DSPREADER2	



RIGHT SIDE OF SPREADER FRAME
LOOKING FROM REAR OF MACHINE

BILL OF MATERIAL

ITEM #	PART #	DESCRIPTION
1	CH901R	SPREADER FRAME OUTSIDE RAIL (REAR)
2	CH49	SPREADER FRAME END BLOCK (2 REQ'D.)
3	CH46	SPREADER
4	CH46R	SPREADER MOUNTING RAIL
5	CH901F	SPREADER FRAME OUTSIDE RAIL (FRONT)
6	CH33-C	REINFORCING PLATE FOR SPREADER FRAME
7	CH33	MOUNTING SOCKET FOR SUPPORT SPRING
8	CH33-D	REINFORCING PLATE FOR SPREADER FRAME
9	CH48	SPREADER FRAME BRACE BARS
10	CH33-B	REINFORCING PLATE FOR SPREADER FRAME
11	CH33-A	REINFORCING PLATE FOR SPREADER FRAME
12	6-32 x 1/4 Torx	6-32 x 1/4 inch long TORX SOCKET HEAD CAP SCREW
13	10-32 x 3/4	10-32 x 3/4 inch long SOCKET HEAD CAP SCREW
14	6-32 x 3/4	6-32 x 3/4 inch long SOCKET HEAD CAP SCREW
15	10-32 x 1	10-32 x 1 inch long SOCKET HEAD CAP SCREW



EDGEWATER MACHINE CO., INC.

DRAWING TITLE:
SPREADER FRAME (3)

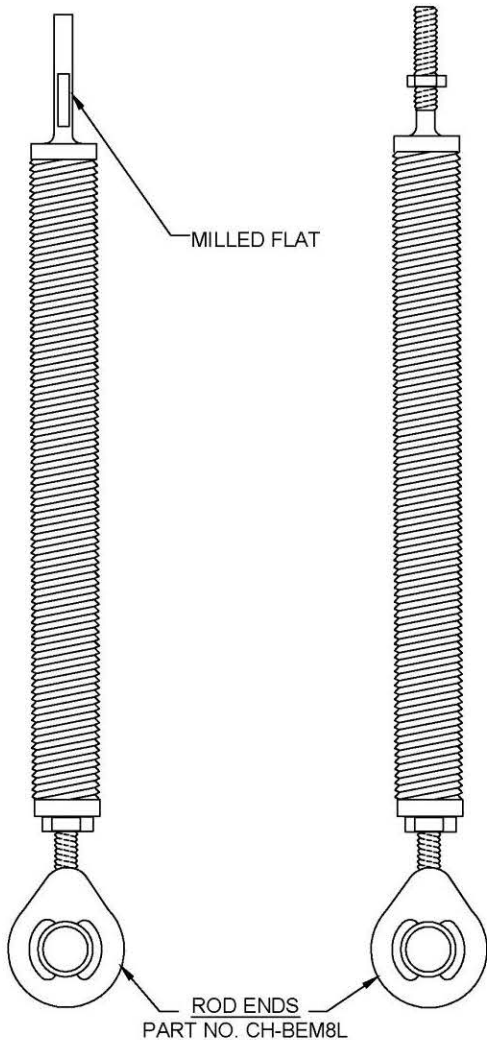
SCALE: NONE	TOLERANCE: (INCHES) UNLESS OTHERWISE SPECIFIED	XXX ±0.01 XXXX ±0.005 ANGLE ±1°
DATE: 6/17/99	DRAWN BY: M.M.P.	CHECKED BY:
REV. DATE: 03/23/07	FILE NAME: 3DSPREADER3	

SHEET 3 of 3

NEW TYPE

FRONT SUPPORT SPRING
PART NO. CH-38-SF

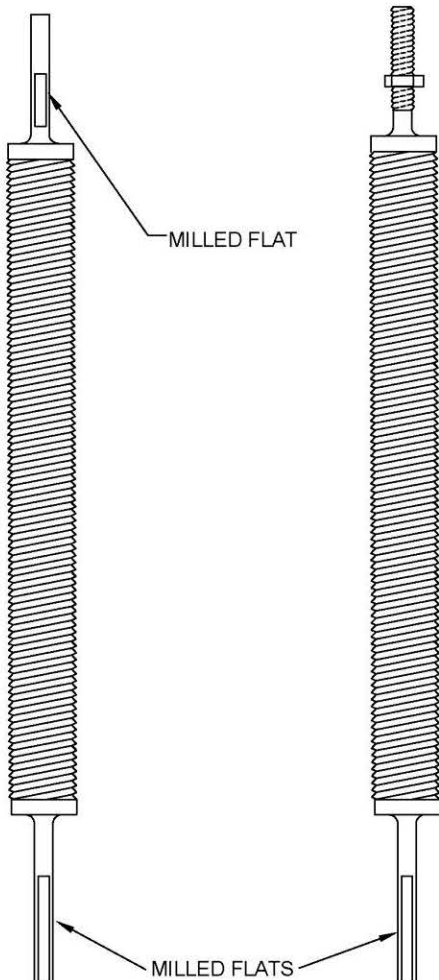
REAR SUPPORT SPRING
PART NO. CH-38-SR



OLD TYPE

FRONT SUPPORT SPRING
PART NO. CH-38-SF-OT

REAR SUPPORT SPRING
PART NO. CH-38-SR-OT



When ordering support springs,
give part number of support spring
as shown above picture at left.
(Example part # - CH-38-SR-OT)



EDGEWATER MACHINE CO., IN

DRAWING TITLE: Support Springs for Spreader Frame			
SCALE: None	TOLERANCE: (INCHES) UNLESS OTHERWISE SPECIFIED	X.XX ±0.01 X.XXX ±0.002 ANGLE ±1°	
DATE: 06/11/99	DRAWN BY: Roy S.	PART #: CH38-??-??	
REV. DATE: 08/17/05	FILE NAME:	CH38 - Support Springs for Spreader Frame	

BILL OF MATERIAL		
ITEM #	PART #	DESCRIPTION
1	CH83R	RIGHT HAND DRIVE LINK
2	CH83L	LEFT HAND DRIVE LINK
3	CH67	NEEDLE DRIVE CONNECTING ROD 1"-14 X 27.3/8" LONG
4	CH86-1-94	NEEDLE DRIVE CRANK ECCENTRIC
5	CHMP48	MAIN SHAFT PILLOW BLOCK BEARING, 3"
6	CH-KC55-2	2" TOP ROCKER SHAFT PILLOW BLOCK BEARING
7	CH63	2" TOP ROCKER SHAFT DRIVE LEVER
8	CH89-SW	STEP WASHER, 24MM.
9	CH89	SHOULDER BOLT, 24MM.

Needle Drive Top Rocker
Shaft Drive Assembly

EDGEWATER MACHINE CO., INC.

DRAWING TITLE:
Needle Drive Top Rocker Shaft Drive Assembly

SCALE: None

TOLERANCE: (INCHES)
UNLESS OTHERWISE SPECIFIED
X.XX ±0.01
X.XXX ±0.002
ANGLE ±1°

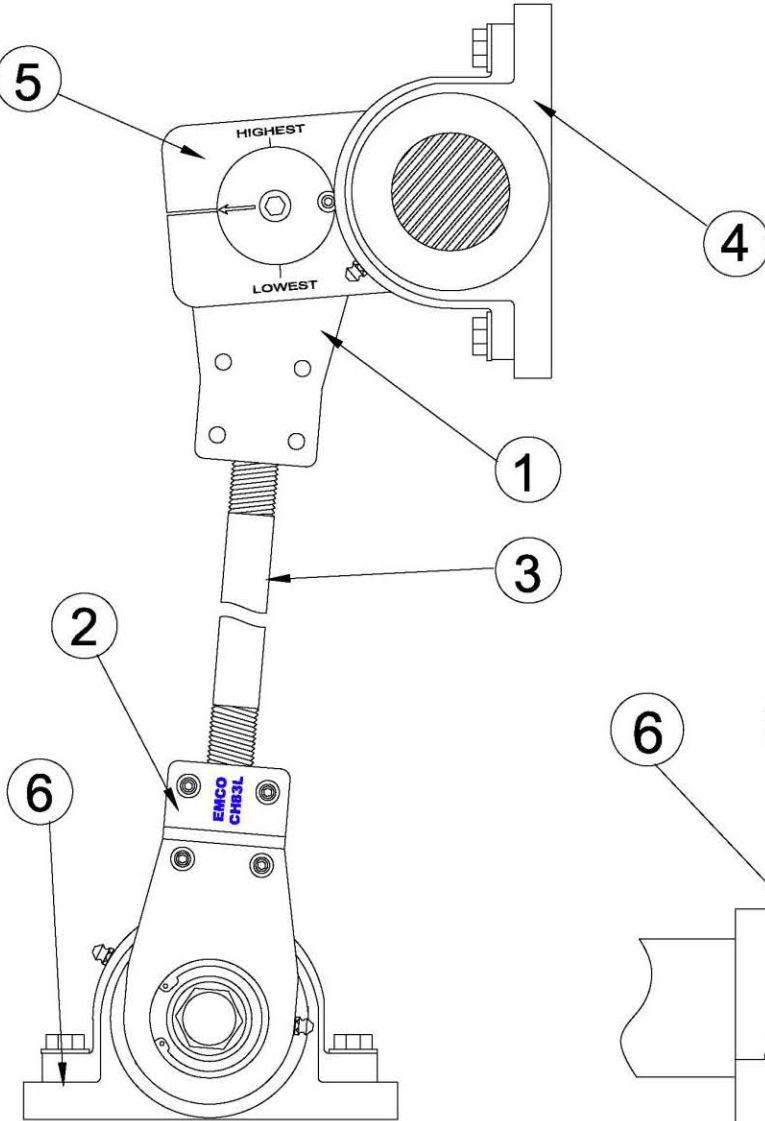
DATE: 10/25/99

DRAWN BY: Roy S.

PART #:

REV. DATE: 08/18/05

FILE NAME: ASSY-NEEDLE CH83R&L



BILL OF MATERIAL

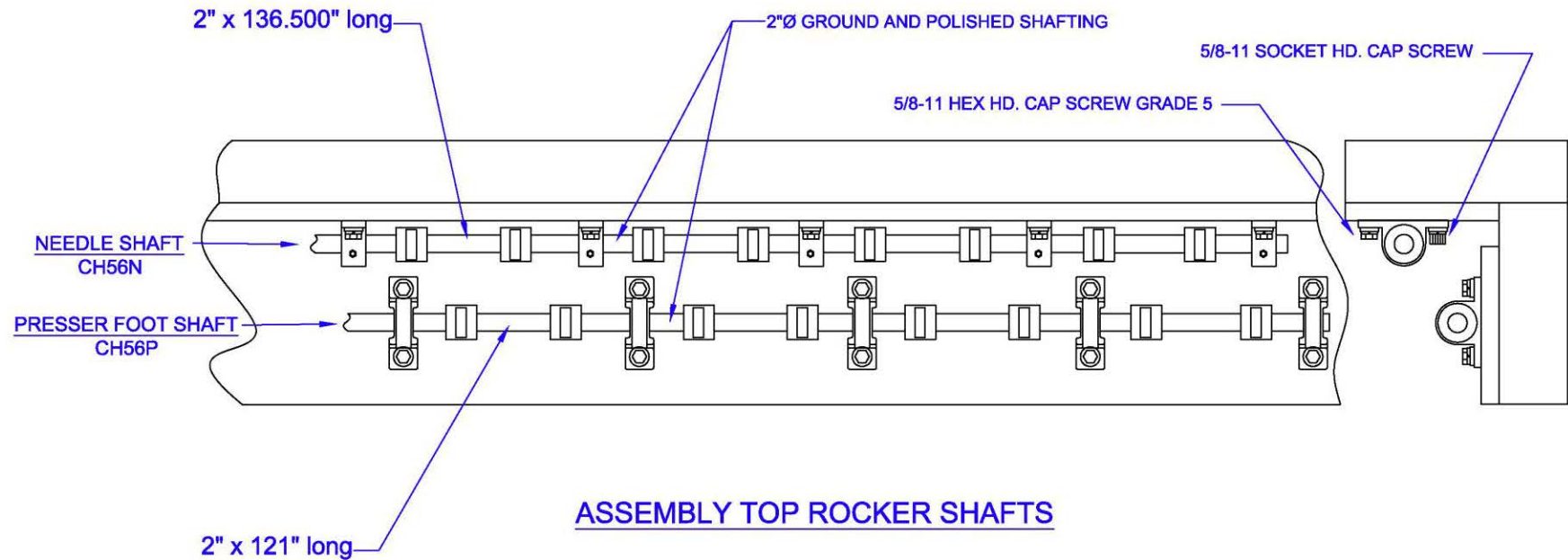
ITEM #	PART #	DESCRIPTION
1	CH83R	RIGHT HAND DRIVE LINK
2	CH83L	LEFT HAND DRIVE LINK
3	CH68	PRESSER FOOT DRIVE CONNECTING ROD 1" -14 X 22-1/8" LONG
4	CH-KC55-2	2" TOP ROCKER SHAFT PILLOW BLOCK BEARING
5	CH63-93	QUICK ADJUST PRESSER FOOT LEVER
6	CHMP48	PRESSER FOOT DRIVE SHAFT 3" PILLOW BLOCK BEARING
7	CH89-SW	STEP WASHER, 24MM.
8	CH89	SHOULDER BOLT, 24MM.

**Presser Foot Top Rocker
Shaft Drive Assembly**



EDGEWATER MACHINE CO., INC.

DRAWING TITLE:		
Presser Foot Top Rocker Shaft Drive Assembly		
SCALE:	TOLERANCE: (INCHES)	X.XX ±0.01
None	UNLESS OTHERWISE SPECIFIED	X.XXX ±0.002
DATE:	DRAWN BY:	PART #:
10/25/99	Roy S.	
REV. DATE:	FILE NAME:	
08/18/05	ASSY-PRESSER FOOT CH83R&L	



Note:

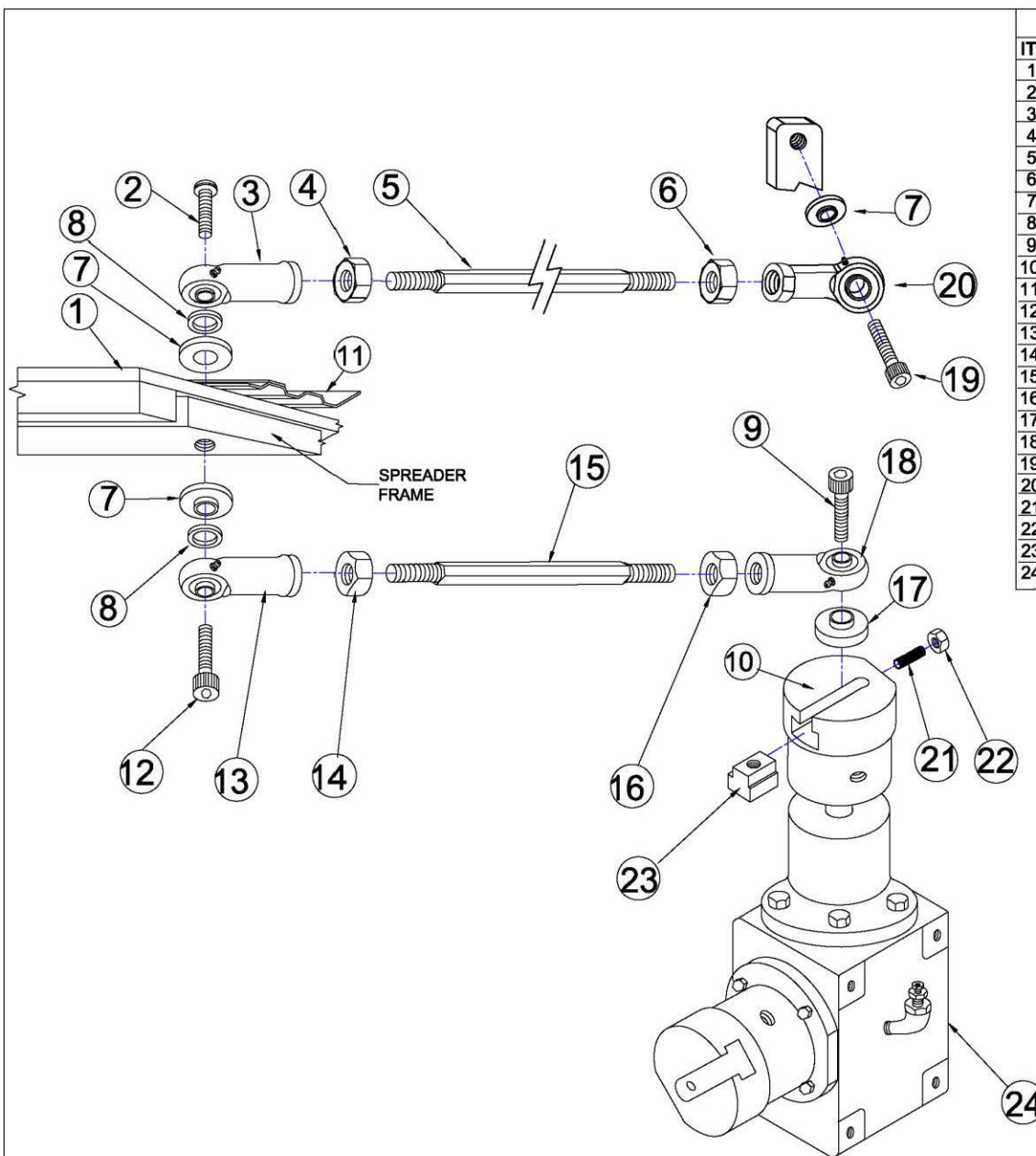
Rear screws on top bearings are socket head cap screws.
Front screws on top bearings are hex head cap screws.

Screws on lower bearings are all hex head cap screws.



EDGEWATER MACHINE CO., INC.

DRAWING TITLE:			
ASSEMBLY TOP ROCKER SHAFTS			
SCALE:	TOLERANCE: (INCHES)	X.XX	±0.01
	UNLESS OTHERWISE SPECIFIED	X.XXX	±0.005
		ANGLE	±1°
DATE:	DRAWN BY:	CHECKED BY:	
08/07/05	Roy S.		
REV. DATE:	FILE NAME:		
06/26/06	ASSY TOP ROCKER SHAFTS		

**BILL OF MATERIAL**

ITEM #	PART #	DESCRIPTION
1	CH1214	NEEDLE PLATE
2		12mm X 30mm BUTTON SOCKET HEAD CAP SCREW
3	CH69-R	12mm R.H. ROD END
4		12mm R.H. NUT
5	CH69-NSR	CONNECTING ROD (ALUM.) 12mm X 12.3/4" LONG
6		12mm L.H. NUT
7	CH86-SW-C	STEPPED SPACER WASHER 12mm (.210-.325)
8	CH86-OR	"O" RING
9		12mm X 45mm SOCKET HEAD CAP SCREW
10	CH86-2-93	ECCENTRIC
11	CH1500L	PRESSER FOOT PLATE L.H.
12		12mm X 40mm SOCKET HEAD CAP SCREW
13	CH69-R	12mm R.H. ROD END
14		12mm R.H. NUT
15	CH86-CR-SF	12mm CONNECTING ROD x 6" LONG(STEEL)
16		12mm L.H. NUT
17	CH86-SW-D	STEPPED SPACER WASHER 12mm (.325)
18	CH69-L	12mm L.H. ROD END
19		12mm X 40mm SOCKET HEAD CAP SCREW
20	CH69-L	12mm L.H. ROD END
21		5/16-18 X 1-1/4" SET SCREW
22		5/16-18 JAM NUT
23	CH78TN	"T" NUT (12mm)
24	CH165HB	GEAR BOX

**EDGEWATER MACHINE CO., INC.****DRAWING TITLE:****SPREADER FRAME LEFT AND RIGHT**

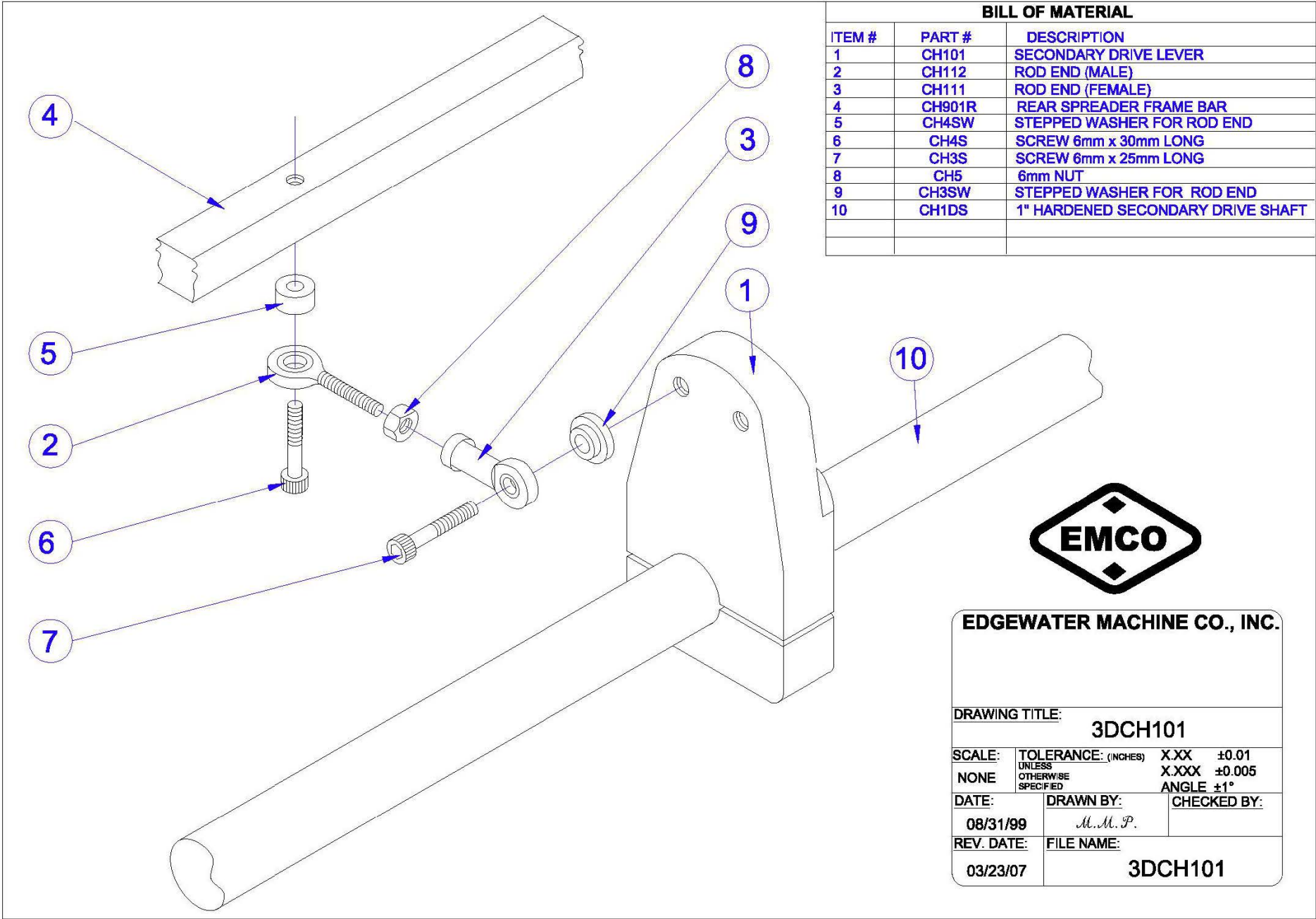
SCALE: TOLERANCE: (INCHES) X.XX ±0.01
 UNLESS OTHERWISE SPECIFIED X.XXX ±0.005
 NONE ANGLE ±1°

DATE: DRAWN BY: CHECKED BY:

06/07/00 M.M.P.

REV. DATE: FILE NAME:

06/26/06 3DSPREADER FRAME L&R



Exploded view diagram of the 3D CH1181 Encoder Bracket assembly. The diagram shows the main bracket (6) with an encoder (8) mounted on it. A shaft (5) passes through the bracket, with a bearing (4) on one side and a coupling (7) on the other. A timing pulley (2) is mounted on the shaft, and a set screw (1) is used to secure it. A washer (3) is also shown. Screws (9) are used to secure the bracket. The part number CH-1181 is visible on the bracket.

BILL OF MATERIAL		
ITEM #	PART #	DESCRIPTION
1	5/16-18x3/8SS	SET SCREW 5/16 -18 X 3/8" LONG.
2	30L050	TIMING PULLEY
3	1/2x5/8x1/16W	WASHER 1/2" ID X 5/8" OD X 1/16" THK.
4	R8-2RS	BEARING
5	CH1181-1/2x3.5	1/2" Ø SHAFT WITH UNDERCUT- 3.1/2" LONG
6	CH-1181	ENCODER BRACKET
7	CH1157-C	ALUMINUM COUPLING 3/8" X 1/2"
8	CHHA625	MAIN SHAFT ENCODER
9	10-32x5/8FHS	SCREW 10-32 X 5/8" LONG
10	CHER8	1/2" BEARING

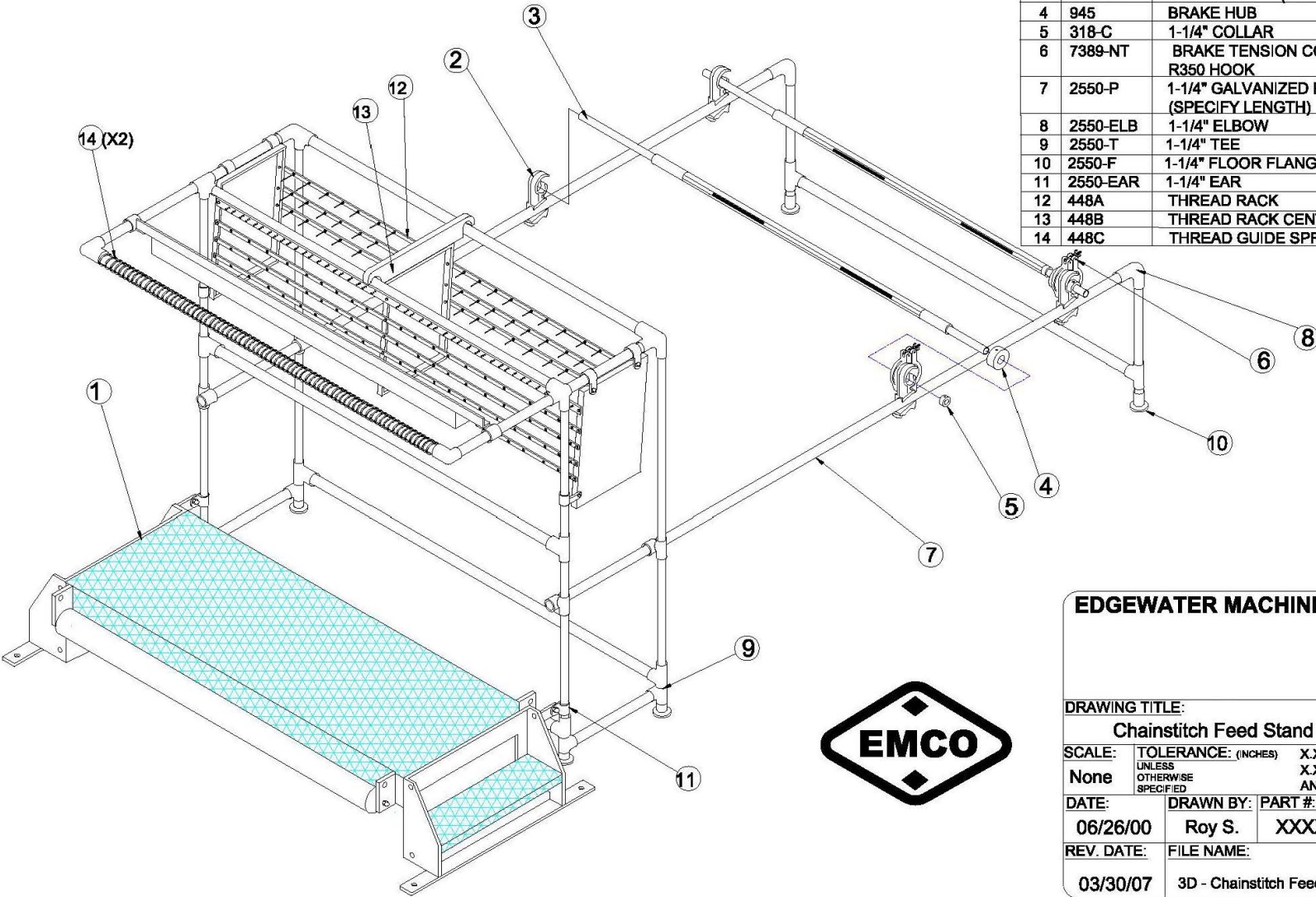
EDGEWATER MACHINE CO., INC.

DRAWING TITLE:
3D CH1181 Encoder Bracket

SCALE:	TOLERANCE: (INCHES)	X.XX ±0.01
None	UNLESS OTHERWISE SPECIFIED	X.XXX ±0.002
		ANGLE ±1°

DATE:	DRAWN BY:	PART #:
06/26/06	Roy S.	CH1181
REV. DATE:	FILE NAME:	
12/19/07	3D CH1181 Encoder Bracket	

**STANDARD 2 ROLL
MATERIAL HANDLING PACKAGE**



BILL OF MATERIAL		
ITEM #	PART #	DESCRIPTION
1	702550	FEED STAND
2	R350	GRIP ROLLER HOOK
3	318-NT	GRIP ROLLER (SPECIFY LENGTH)
4	945	BRAKE HUB
5	318-C	1-1/4" COLLAR
6	7389-NT	BRAKE TENSION CONTROL WITH R350 HOOK
7	2550-P	1-1/4" GALVANIZED PIPE (SPECIFY LENGTH)
8	2550-ELB	1-1/4" ELBOW
9	2550-T	1-1/4" TEE
10	2550-F	1-1/4" FLOOR FLANGE
11	2550-EAR	1-1/4" EAR
12	448A	THREAD RACK
13	448B	THREAD RACK CENTER SUPPORT
14	448C	THREAD GUIDE SPRINGS

EDGEWATER MACHINE CO., INC.

DRAWING TITLE:			
Chainstitch Feed Stand - 2 Roll			
SCALE:	TOLERANCE: (INCHES)	X.XX	±0.01
None	UNLESS OTHERWISE SPECIFIED	X.XXX	±0.002
			ANGLE ±1°
DATE:	DRAWN BY:	PART #:	
06/26/00	Roy S.	XXXXXXXXXX	
REV. DATE:	FILE NAME:		
03/30/07	3D - Chainstitch Feed Stand - 2 Roll		