

Edgewater Machine Company Inc.

Designers and Manufacturers
of Special Machinery

The Emco 9000-3 Parts Manual

Version 05.17



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



Edgewater Machine Company Inc.

Parts Manual Notice:

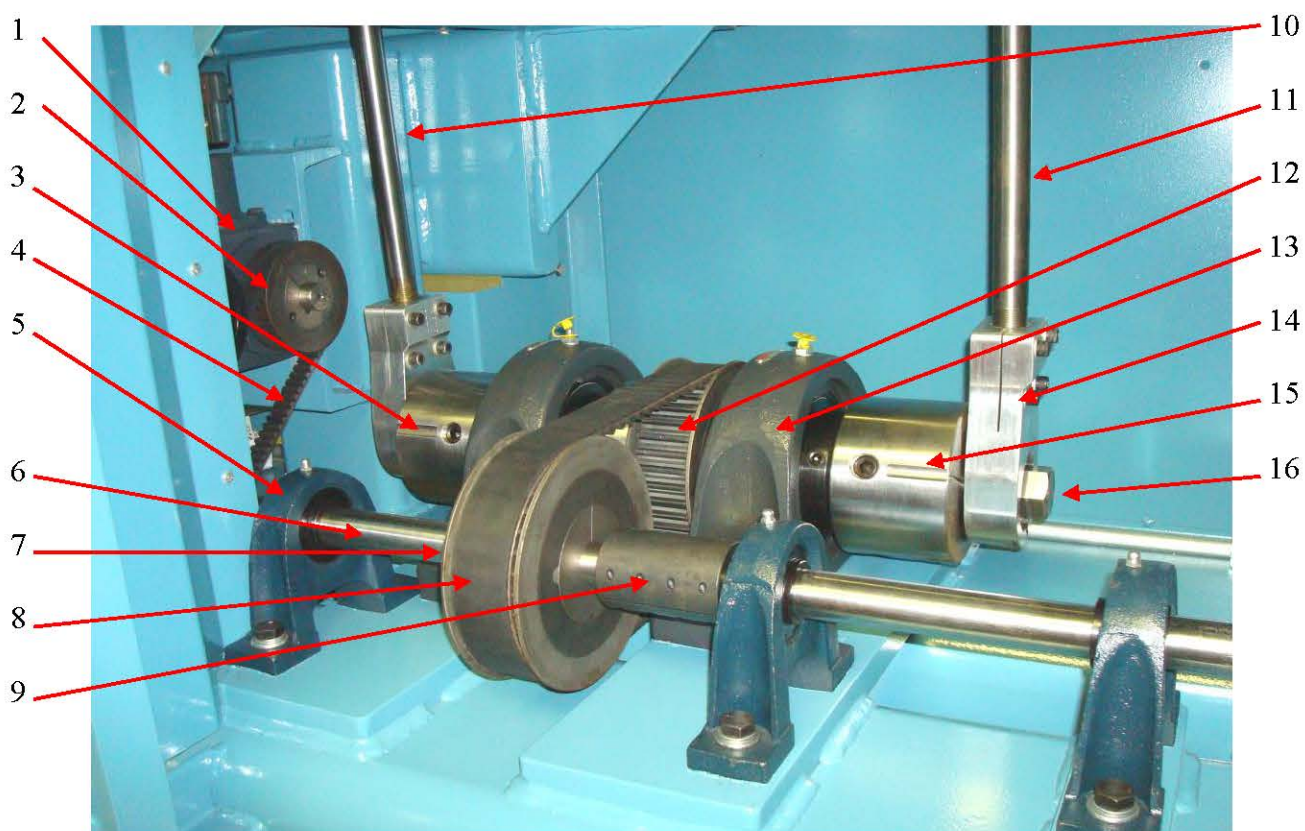
Emco products should be used only for the purpose and in the manner intended by their original design. It is recommended that no modifications be made to this product. Any modification of this product will void any expressed or implied warranty and will hold the user responsible.

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	CHP368M20-1610	Gear Box Timing Pulley with 1" bore bushing (1610 x 1)
3	CH86-P-12	Presser Foot Drive Crank Eccentric
4	CH720-8mm	Gates - Gear Box Timing Belt
5	CHS828M	Drive Shaft Pillow Block Bearing, 1.3/16"
6	CH1.3/16" shaft	Drive Shaft, 2 pcs., specify length of each, 1.3/16" with keyway
7	CH3614M40-2517	Drive Shaft Timing Pulley with 1.3/16" bushing (2517 x 1.3/16)
8	CH966-14M	Gates - Drive Shaft Timing Belt
9	CH1046C	Drive Shaft Coupling, 1.3/16", keyed
10	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14 Thread
11	CH67	Needles Drive Connecting Rod, 27" long, 1"-14
12	CH3614M40	Main Shaft Timing Pulley with 3" Bore custom made hub
13	CHMPD48	Main Shaft Pillow Block Bearing, 3" (x2)
14	CH83-L	Needle Drive Lower Drive Link, LH Thread

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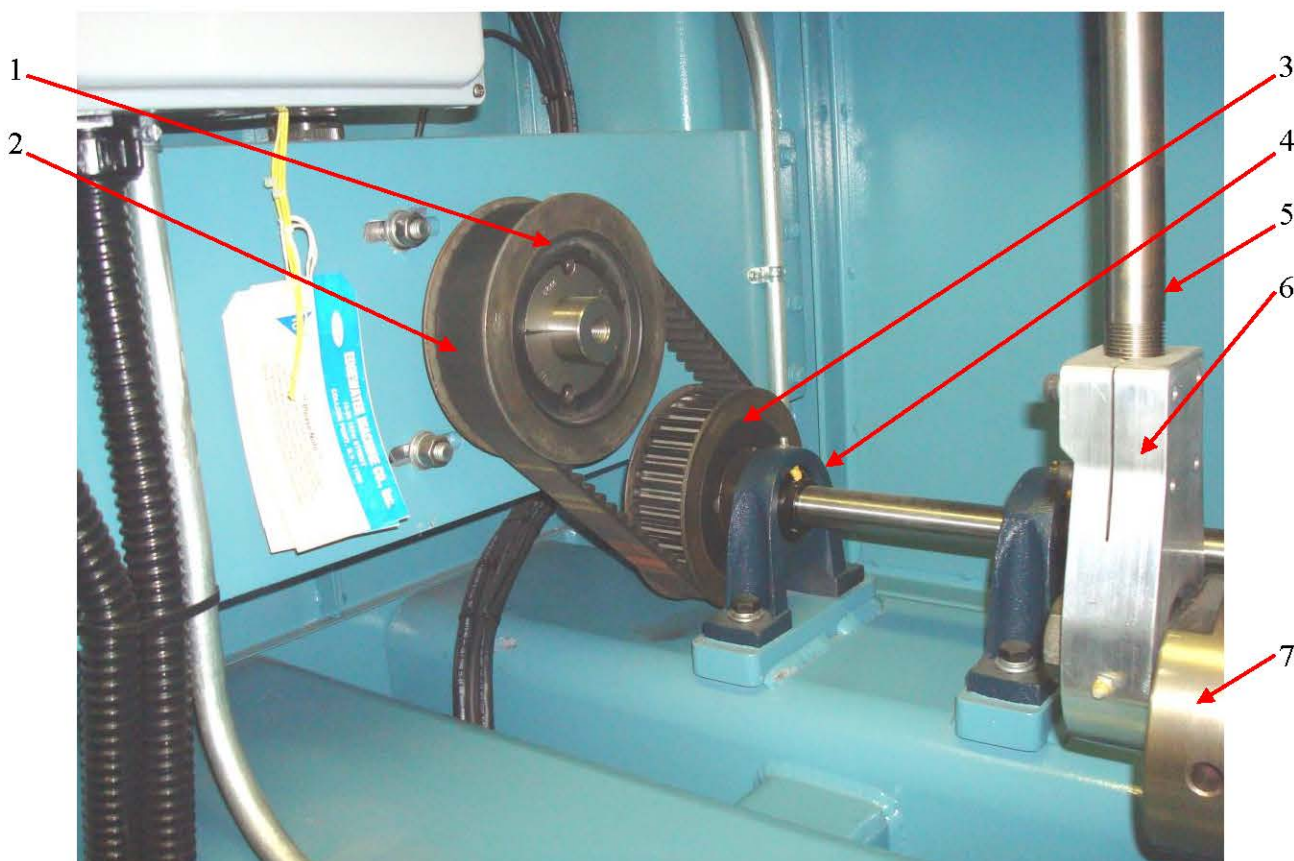
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Item #	Part #	Description
15	CH86-N-12	Needle Drive Crank Eccentric
16	CH89 / CH89SW	Shoulder Bolt – 24mm / Step Washer for bolt (not shown)

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Emco 9000 Series Chainstitch Part Listing

Edgewater Machine Company, Inc.

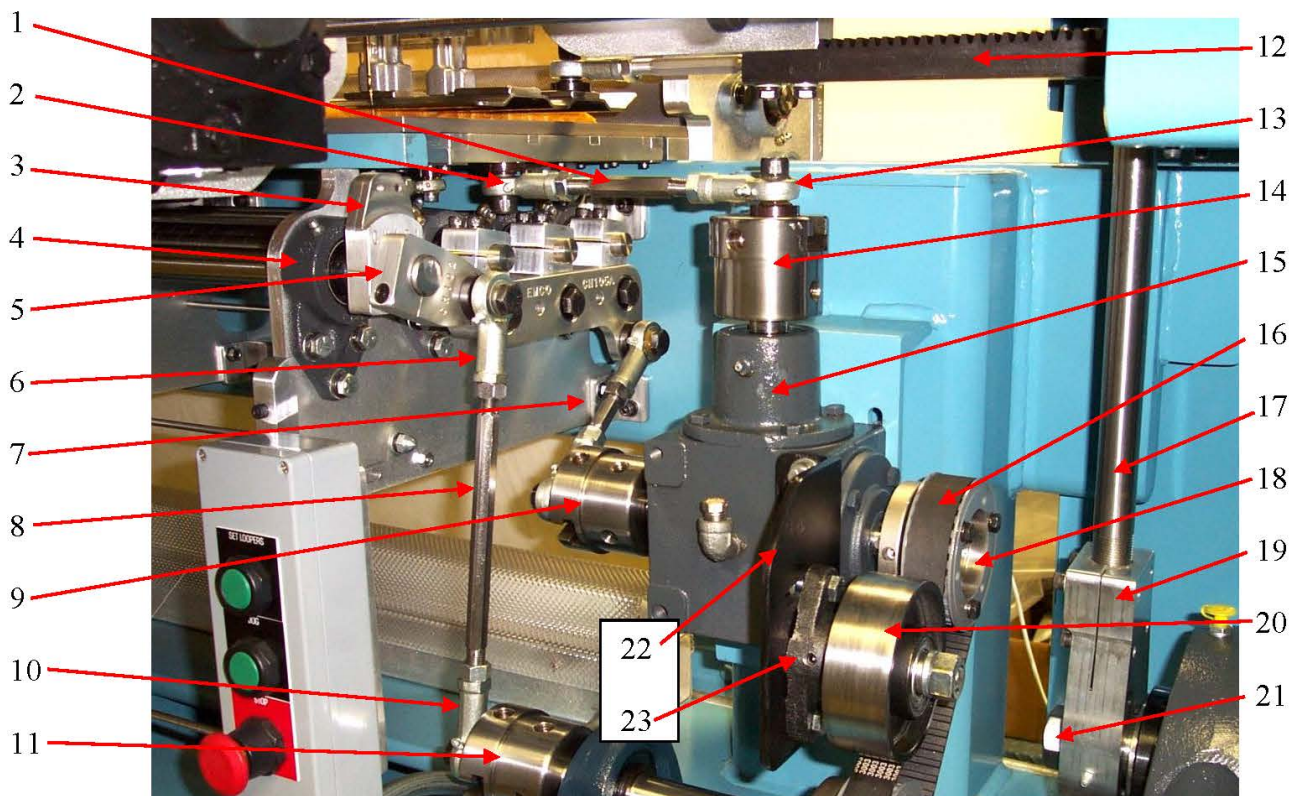


Item #	Part #	Description
1	CHP3614M40-2517x42	Main Shaft Motor Timing Pulley and Bushing, (2517 x42mm)
2	CH966-14M	Gates – Timing Belt
3	CHP3614M40-2517x1.3/16	Drive Shaft Timing Pulley, 1.3/16” Bushing
4	CHS828M	Main Drive Shaft Pillow Block Bearing, 1.3/16”
5	CH67	Needle Drive Connecting Rod, 27.3/8” long, 1”-14
6	CH83-L	Needle Drive Connecting Rod Link
7	CH86-N-12	Needle Drive Crank Eccentric

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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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Emco 9000 Series Chainstitch Part Listing

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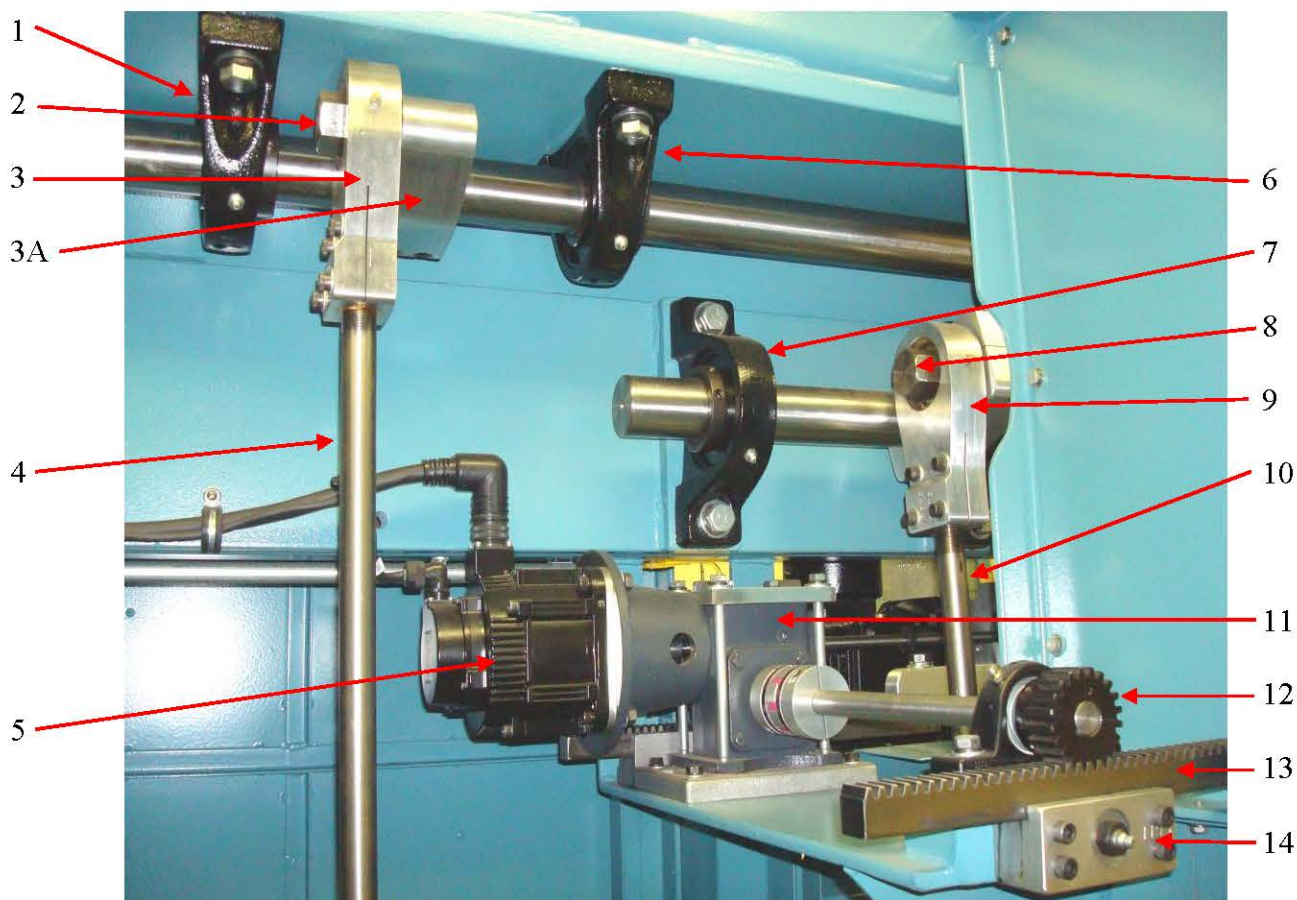
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Item #	Part #	Description
15	CH165HC	Spreader Frame and Looper Shaft Gear Box
16	CH720-8mm	Spreader Frame and Looper Gear Box Timing Belt
17	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14
18	CHP368M20-1610x1	Spreader Frame & Looper Gear 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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Emco 9000 Series Chainstitch Part Listing

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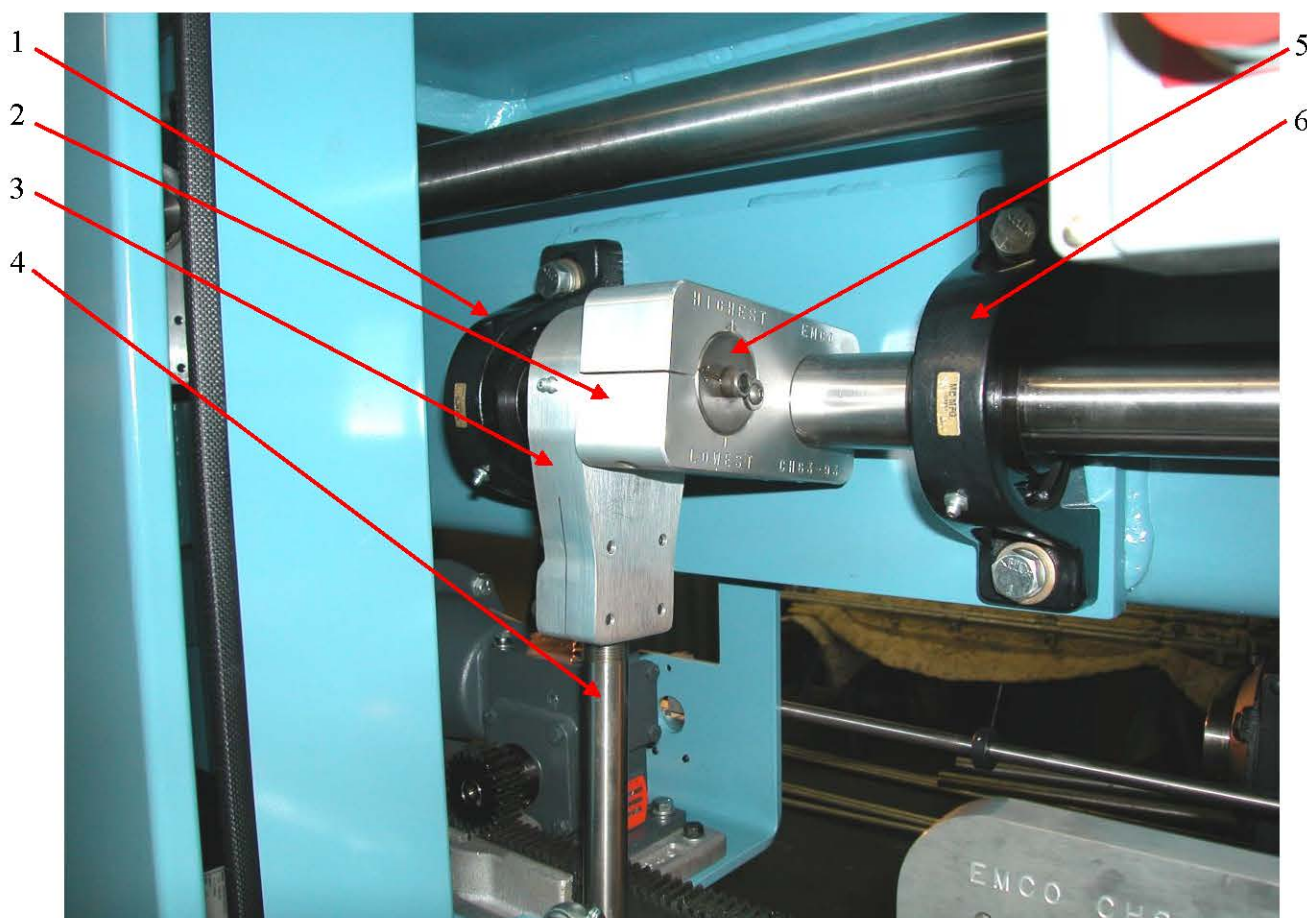


Item #	Part #	Description
1	CH-KC-55-2	Upper Rocker Shaft Pillow Block Bearing
2	CH89 / CH89SW	Shoulder Bolt, 24mm. / Step Washer for Shoulder Bolt
3	CH83R	Presser Foot Connecting Rod Upper Drive Link, RH
3A	CH63N	Top Rocker Shaft Drive Lever for Needles
4	CH67	Presser Foot Drive Connecting Rod, 27.3/8" long, 1"-14
5	CHSGMGV-09A3A6S	Carriage Servo Motor
6	CH-KC-55-2	Upper Rocker Shaft Pillow Block Bearing
7	CH-KC-55-2	Upper Rocker Shaft Pillow Block Bearing
8	CH89 / CH89SW	Shoulder Bolt, 24mm. / Step Washer for Shoulder Bolt
9	CH83R	Presser Foot Connecting Rod Upper Drive Link, RH
10	CH68	Presser Foot Drive Connecting Rod, 22.1/8" long, 1"-14
11	CH181HC	Carriage Gear Box
12	CHSS10F20	Carriage Gear Box Spur Gear, with 3/4" bore and keyway
13	CHNSR10x1	Carriage Rack Gear, 16" long
14	CH1195	Rack Gear Support Block with bearing

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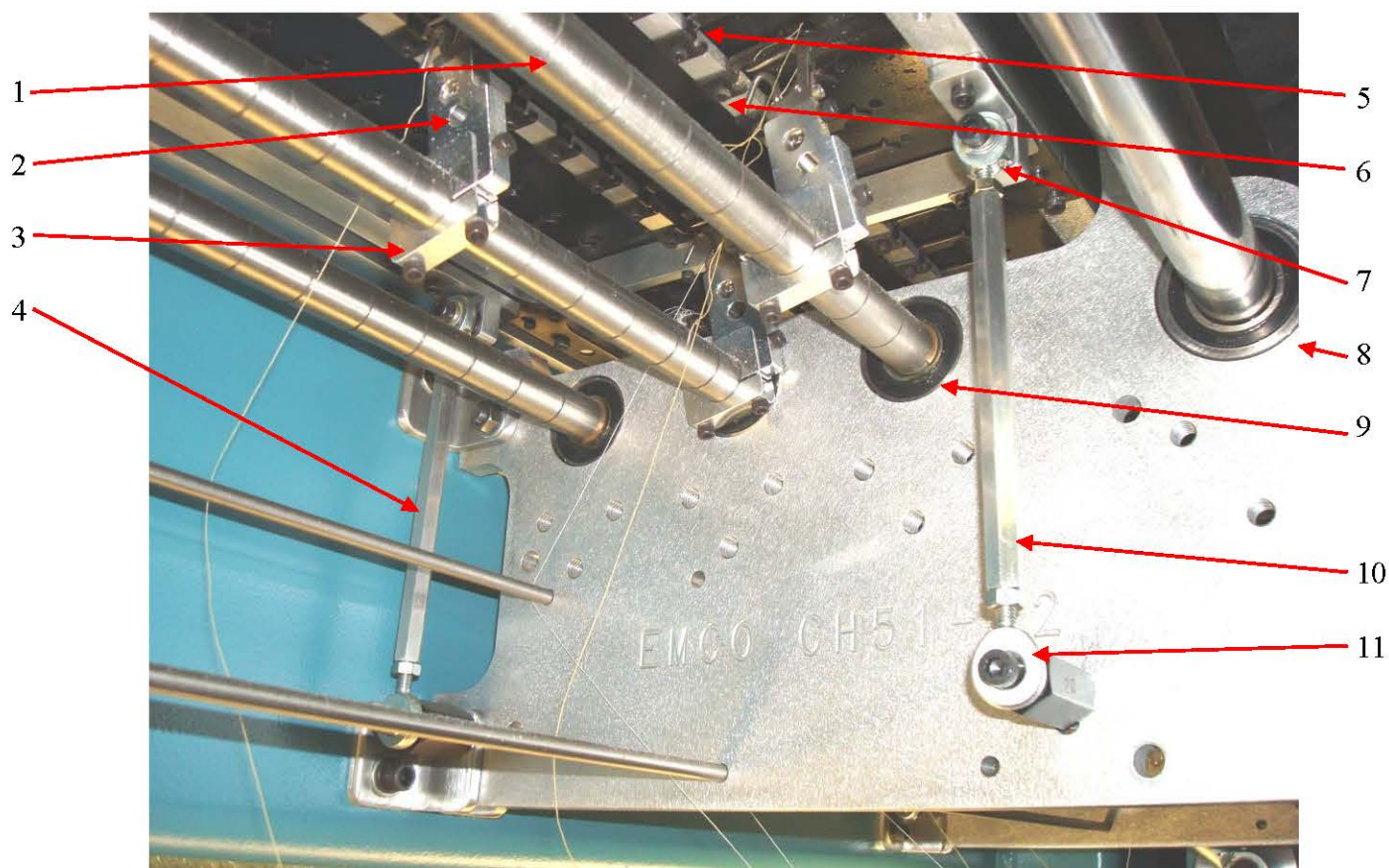


Item #	Part #	Description
1	CH-KC-55-2-1	Upper Rocker Shaft Pillow Block Bearing, 2"
2	CH63-93	Presser Foot Quick Adjust Drive Lever
3	CH83-R	Presser Foot Connecting Rod Upper Drive Link, RH
4	CH68	Presser Foot Drive Connecting Rod, 22.3/4" long, 1"-14
5	CH63-94-P-062	Eccentric Plug for Presser Foot Quick Adjust Lever
6	CH-KC-55-2-1	Upper Rocker Shaft Pillow Block Bearing, 2"
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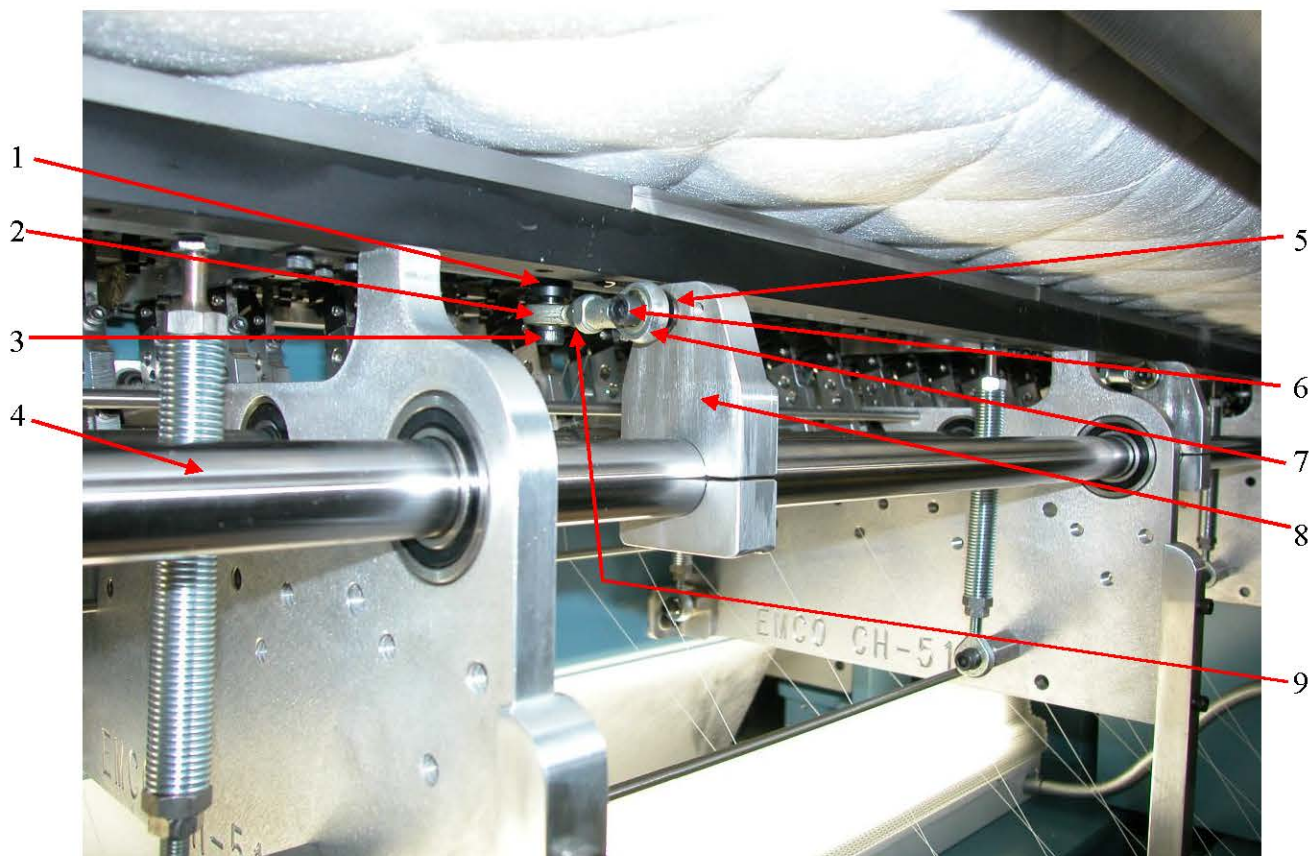


Item #	Part #	Description
1	CH45	Looper Shaft, specify length
2	CH43	Looper Block
3	CH42	Looper Saddle, 2 parts, sold as a pair
4	CH38HEX	Spreader Frame Support Connecting Rod, 5" long
5	CH46	Spreader
6	CH46S	6-32 Torx Socket Head Screw for Spreader
7	CHBRM-06-00-501R	Male Rod End, 6mm., RH
8	CH2	1" Spreader Frame Drive Shaft Bearing
9	CHR12VV	3/4" Looper Shaft Bearing
10	CH38HEX	Spreader Frame Support Connecting Rod, 5" long
11	CHBEM-06-20-502L	Male Rod End, 6mm., LH
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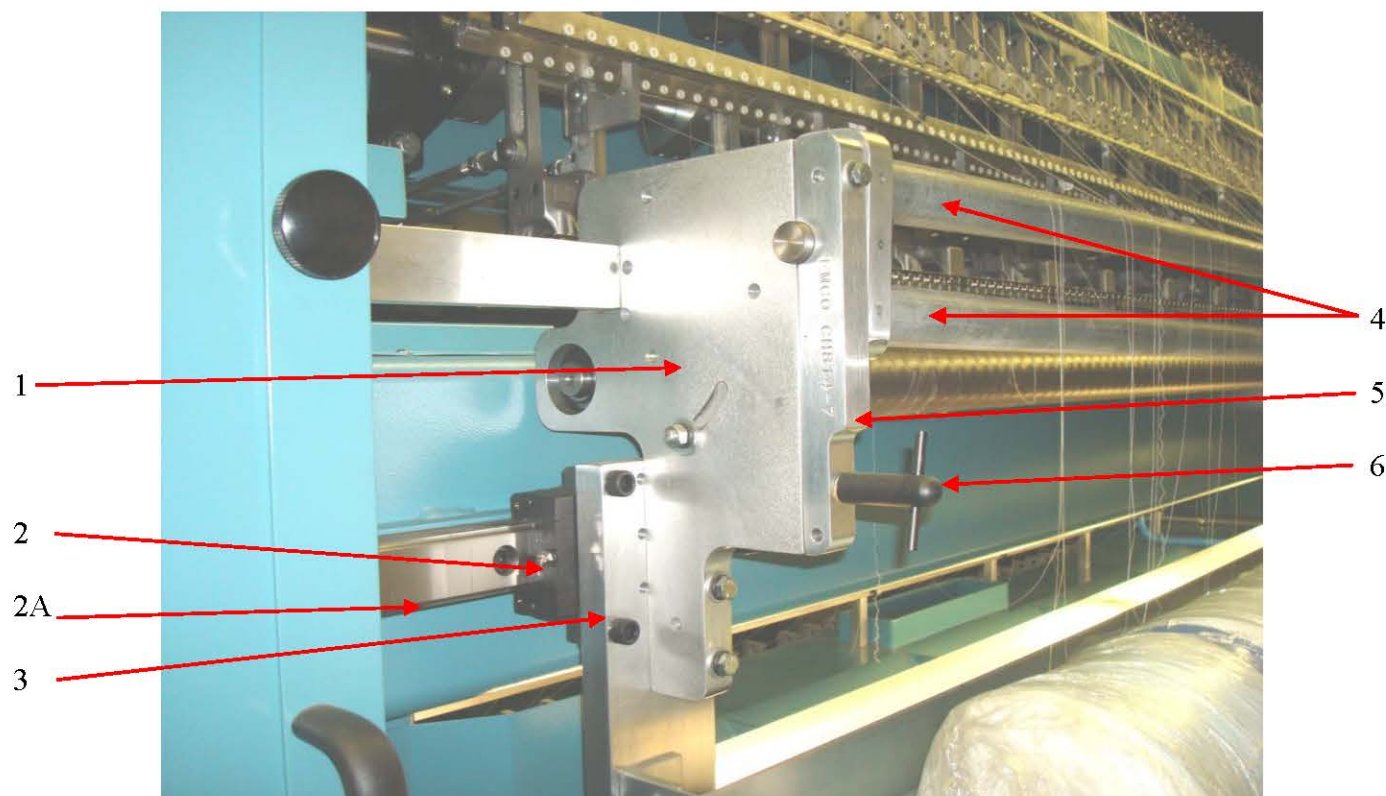


Item #	Part #	Description
1	CH4SW	6mm Step Washer
2	CHBRM6	6mm Rod End, Male RH Thread
3	CH4S	6mm x 30mm Socket Head Screw
4	CH1DS	1 inch hardened Drive Shaft, Spreader Frame Secondary Drive Shaft, specify length
5	CH3SW	6mm Step Washer
6	CH3S	6mm x 25mm Socket Head Screw
7	CHBRF6	6mm Rod End, Female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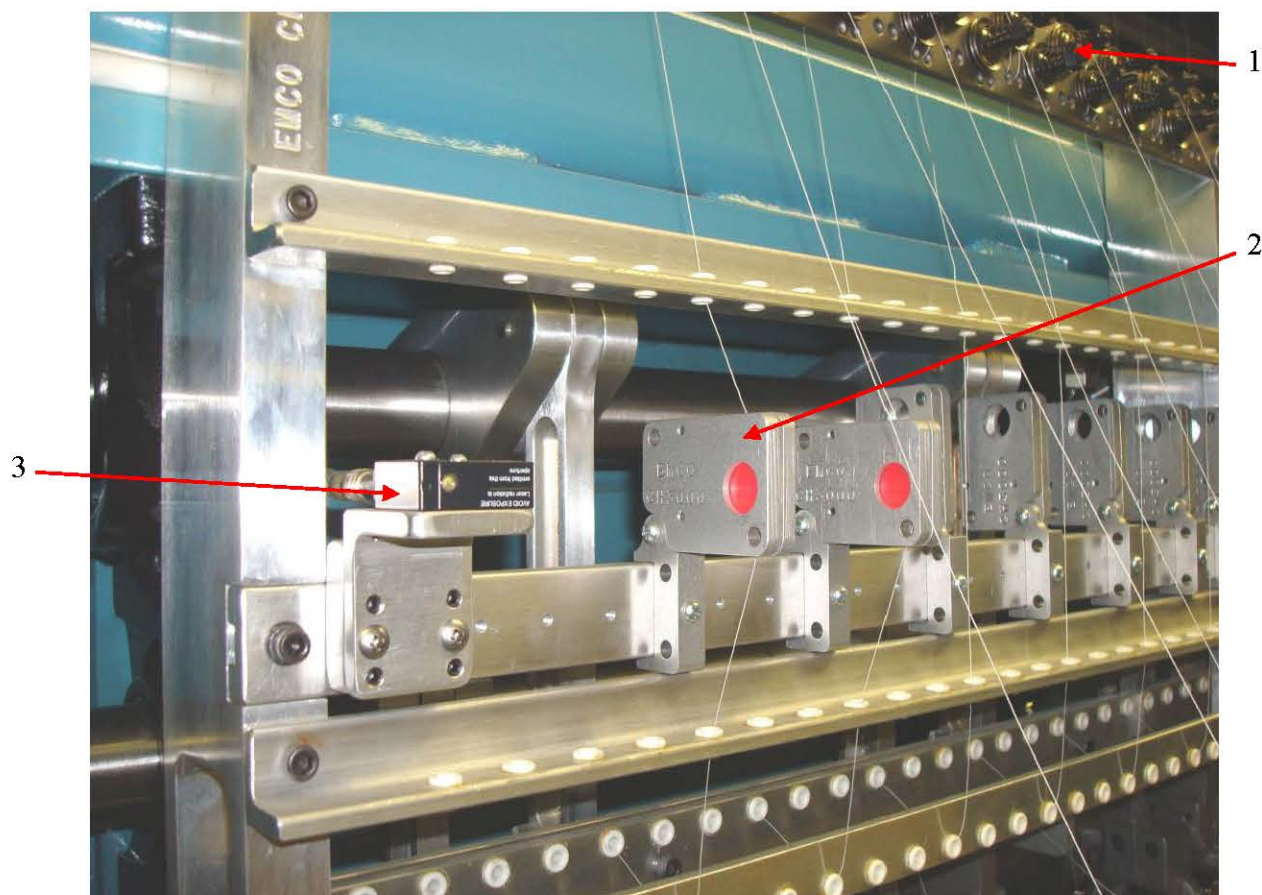


Item #	Part #	Description
1	CH814-12	Front Guide Rollers Mounting Plate
2	CHLLTHC-45-A-T1-P5	Linear Rail Ball Guide
2A	CHSKF45-Rail	Linear Rail – 45, 14.5” long
3	CH9000-12J	Front Carriage Mounting Plate
4	CH489-B	Top Cloth Tensioning Bars, specify length
5	CH814-7	Top Cloth Tensioning Bars Clamping Block
6	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	CH2000J	Broken Thread Detector Laser Sensor
3	CH3000	Broken Thread Detector
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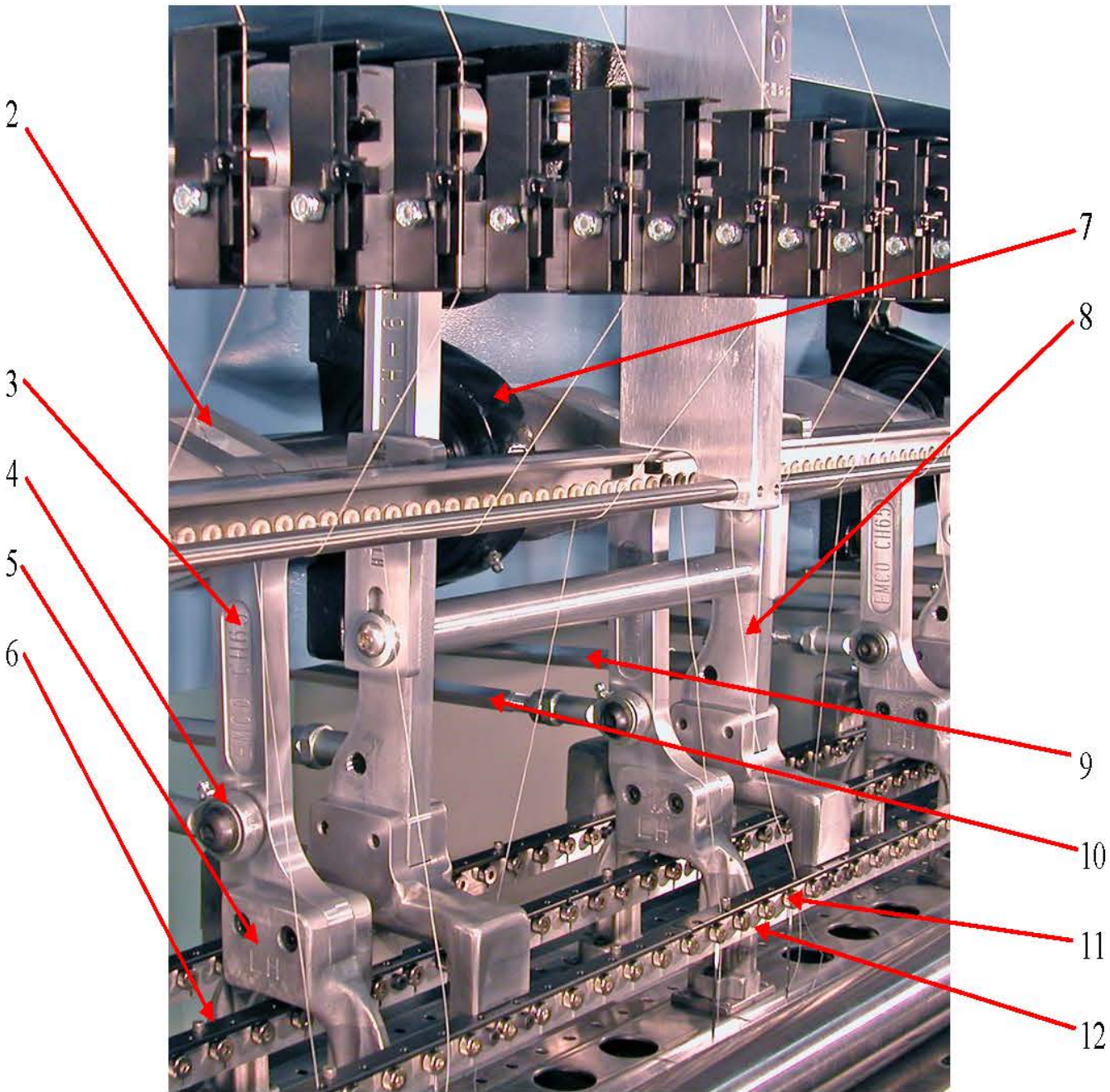


Item #	Part #	Description
1	CH3000	Broken Thread Detector Unit
2	CH2000I	Laser Reflector
3	CHYBB-30S4-0500-G012 CHYBB-30R4-0500-G012	Front Light Curtain, Sender Unit Front Light Curtain Receiver Unit
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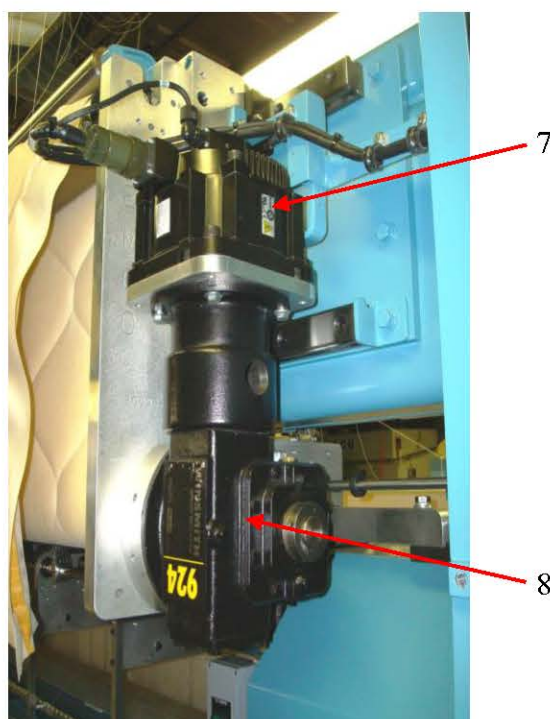
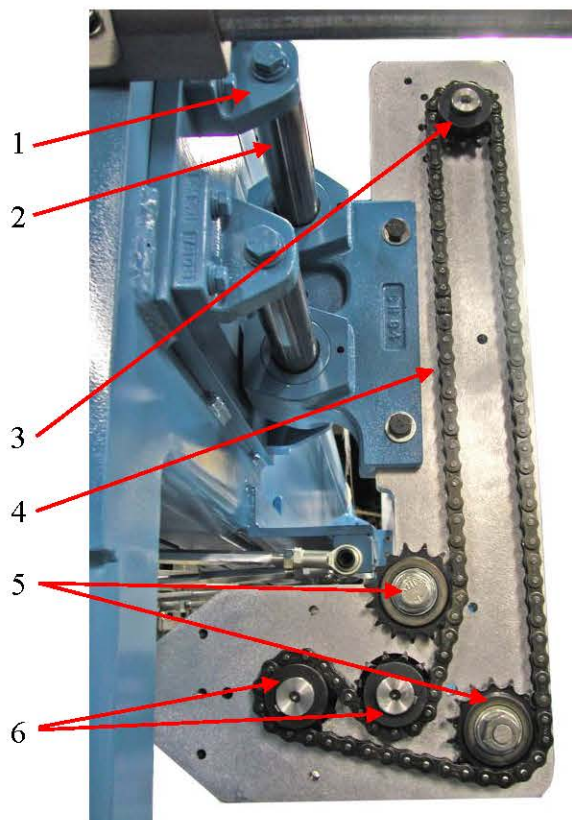


Item #	Part #	Description
2	CH62	Needle and Presser Foot Top Rocker Shaft Levers
3	CH65	Presser Foot Lift Link
4	CH69	Female Rod End, 12mm, specify RH or LH thread
5	CH550	Presser Foot Bridge, specify RH or LH
6	CH299	Hardened Needle Bar Thread Eyelet Bar, specify length and location on which needle 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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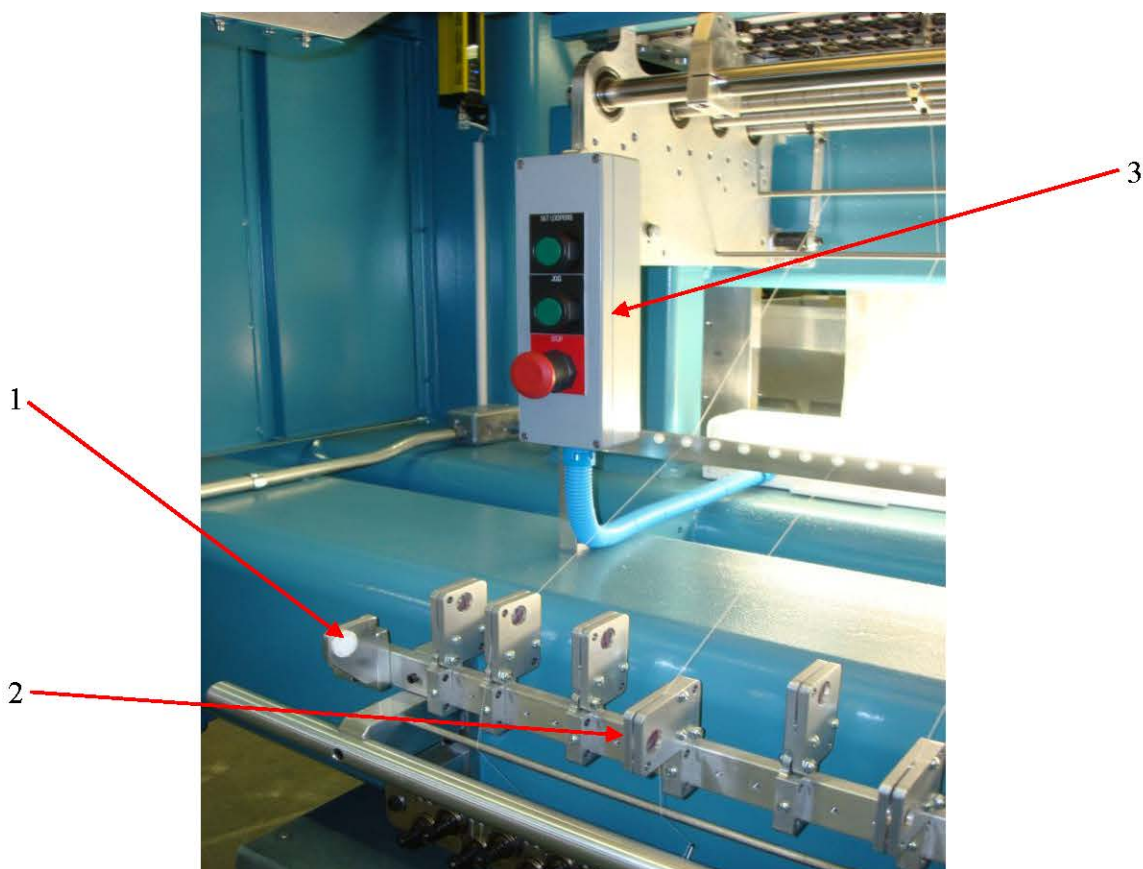


Item #	Part #	Description
1	CH7809	Carriage Support bracket
2	CH818-14	1.1/2 x 14" long hardened carriage support shaft
3	CH50B12x1	50B12 x 1 inch Sprocket
4	CH50RC	#50 Roller Chain, specify length
5	CH50BB15H	#50 Idler Sprockets with bearing
6	CH50B12x1.3/16	50B12 x 1.3/16 inch Sprocket
7	CHSGMGV-30A3A6S	Feed Roll Drive AC Servo Motor
8	CH924CDSF-90:1	Feed Roll Gear Box, Hollow Shaft, 1.3/16"
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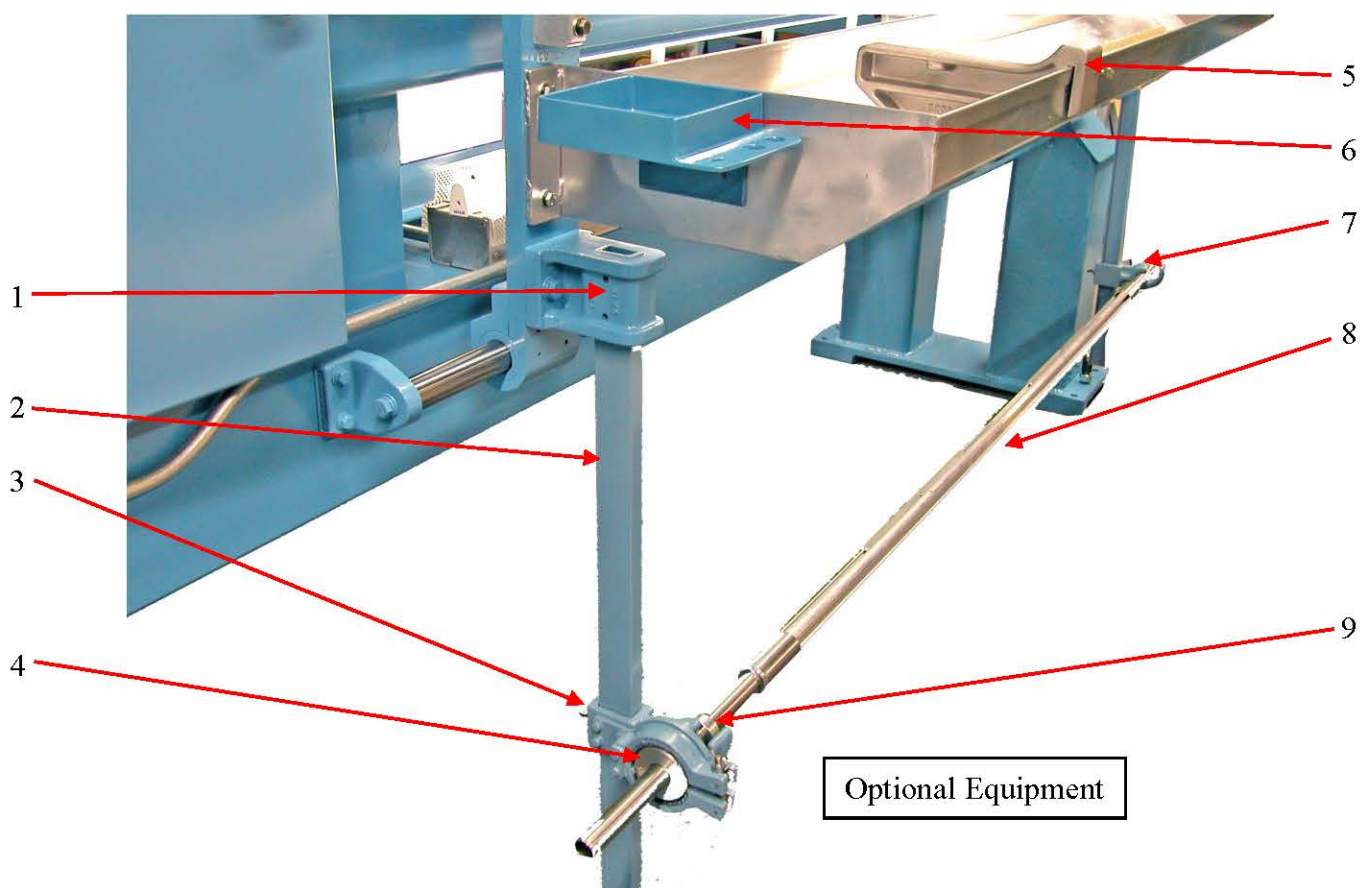


Item #	Part #	Description
1	CH2000I	Broken Thread Laser Sensor Reflector
2	CH3000	Broken Thread Detector Unit
3	CH800T3TZ	Three Button Station, Set Looper/Jog/Stop, complete

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Emco 9000 Series Chainstitch Part Listing

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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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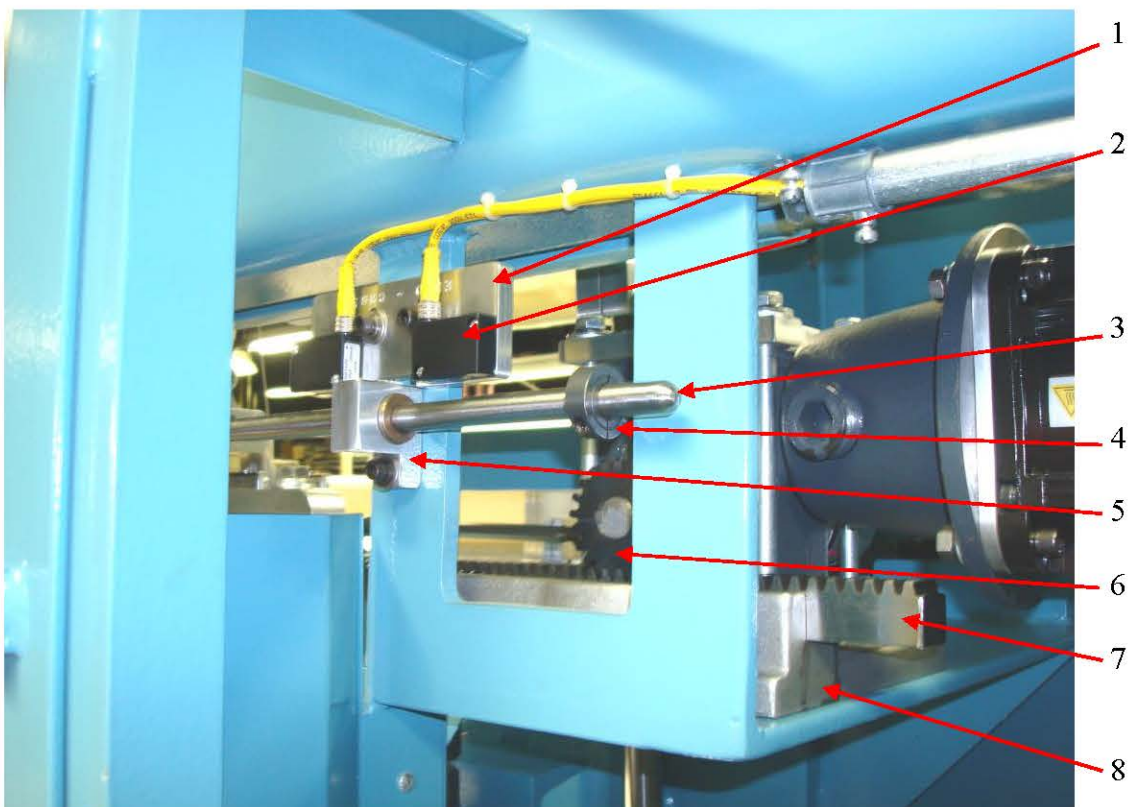


Item #	Part #	Description
1	CHSGMGV-55A3A6S	Main Shaft Drive Servo Motor
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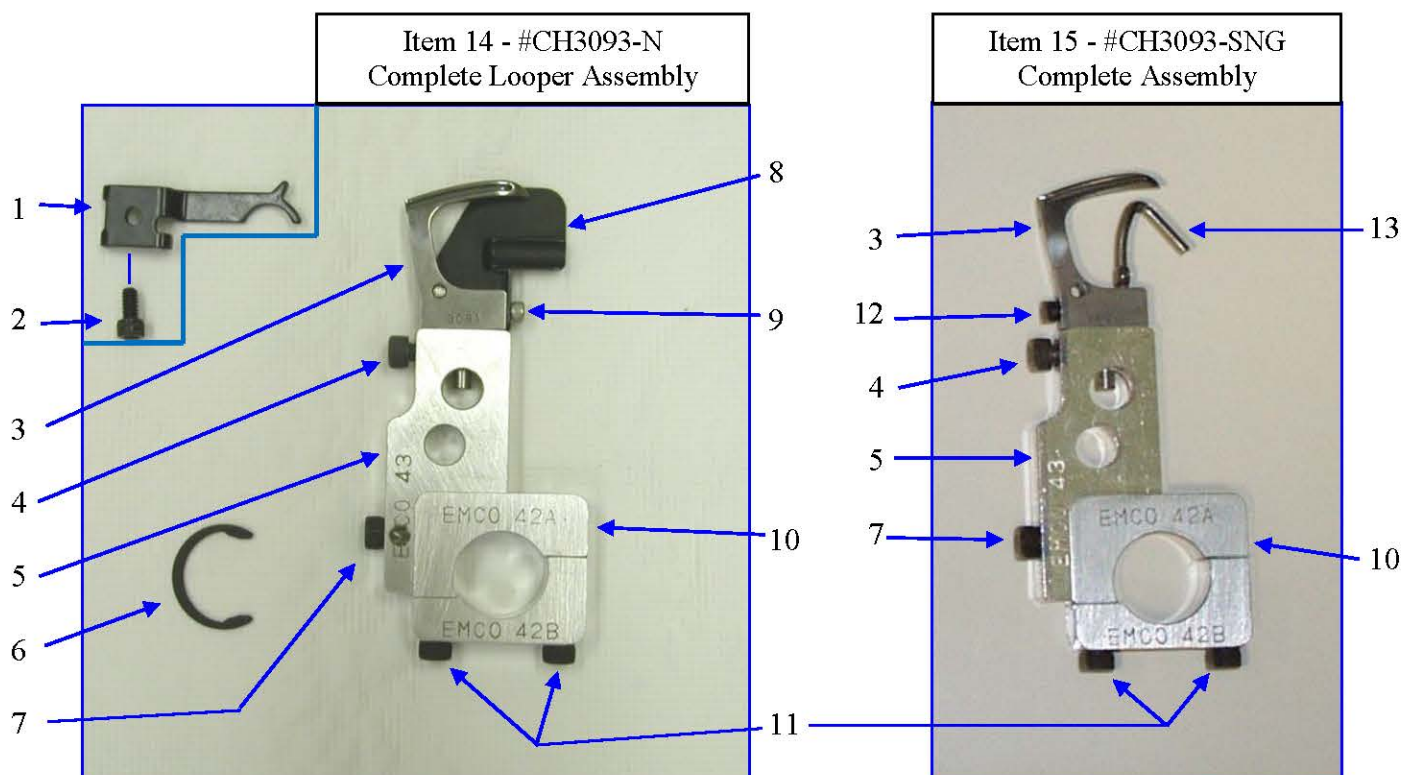


Item #	Part #	Description
1	CH952	Proximity Switch (Limit Switch) mounting plate
2	CH7905	Proximity Switch (Limit Switch), (x2)
3	CH7906	1/2" x 21.5/8" long, limit switch rod
4	CH7906-C	1/2" collars for limit switches, (x2)
5	CH7906RS	1/2" Rod Support
6	CHSS10F20	Carriage Gear Box Spur Gear, with 3/4" bore and keyway
7	CHNSR10x1	Carriage Rack Gear, 16" long
8	CH840	Carriage Gear Box and Rack Gear Mounting Plate
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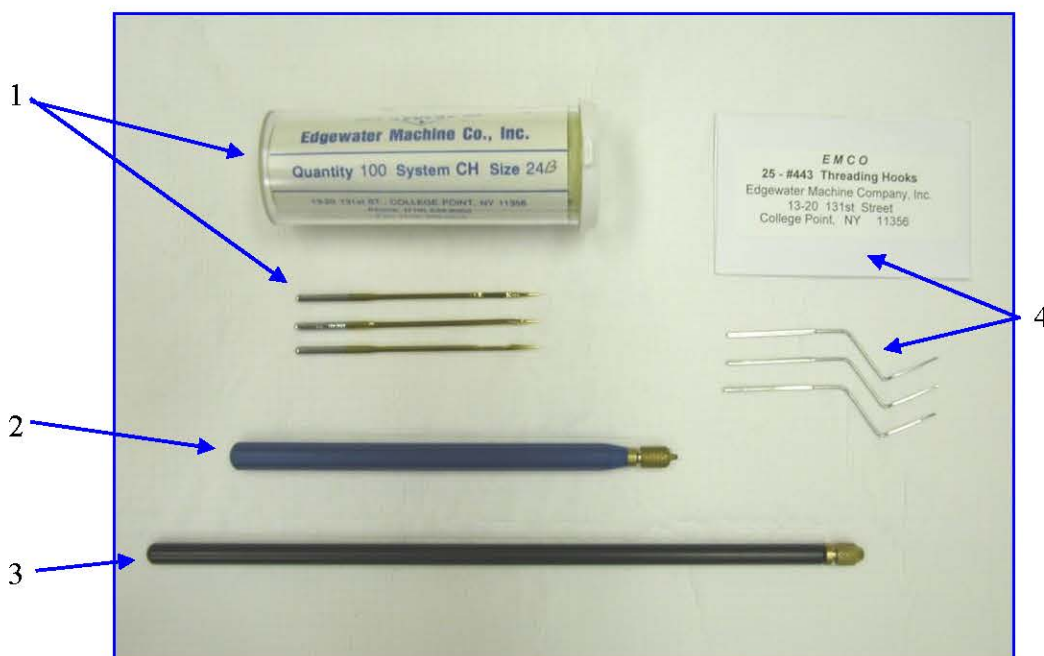


Item #	Part #	Description
1	CH46	Spreader
2	CH46S	6-32 Torx Socket Head Cap Screw for Spreader
3	CH3091	Looper
4	CH832x38DP	8-32 x 3/8" long, Socket Head Cap Screw, Dog Point
5	CH43	Looper Block
6	CH45-CR	Looper Shaft "C" Ring for positioning loopers on shaft
7	CH832x58	8-32 x 5/8" long Socket Head Cap 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	CH3093-N	Complete Looper Assembly (does not include item #6)
15	CH3093-SNG	Complete Looper Assembly

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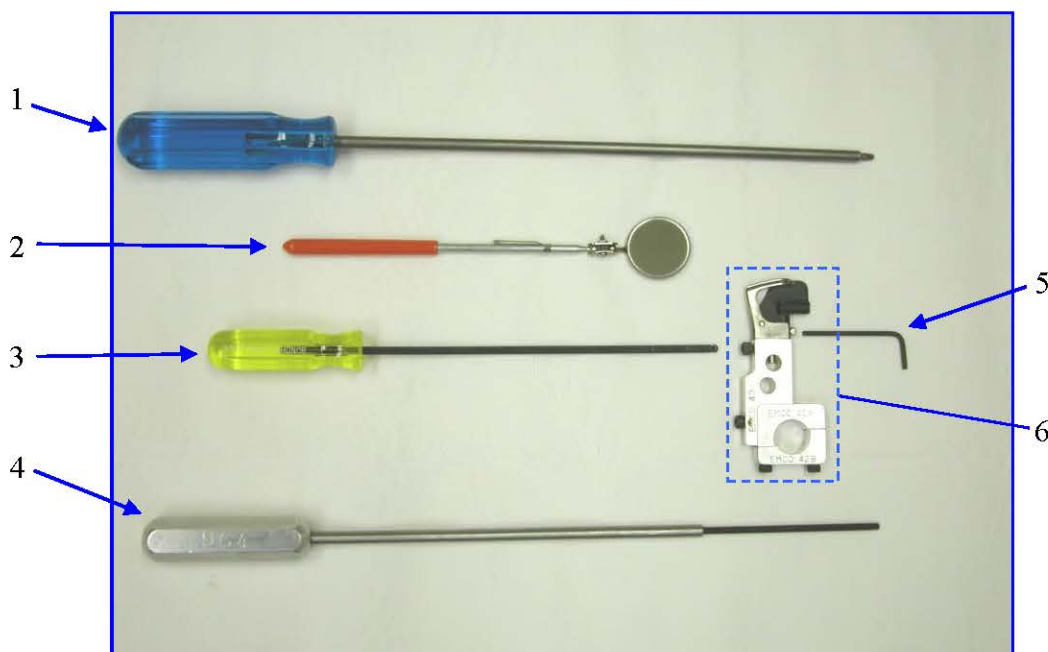


Item #	Part #	Description
1	CH24B	Chainstitch Needles
2	CH443-H-S	Short Threading Hook Handle
3	CH443-H-L	Long Threading Hook Handle
4	CH443	Package of 25 Threading Hooks
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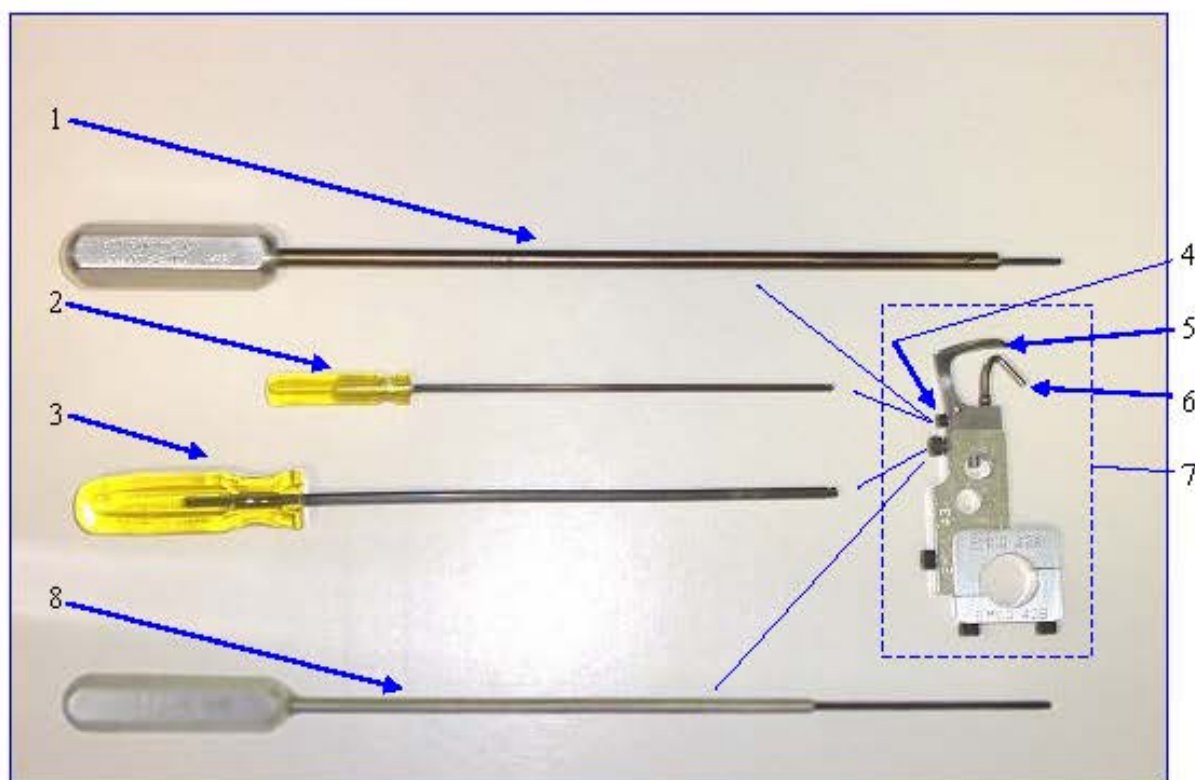


Item #	Part #	Description
1	CHT15XL	Extra Long #15 Torx Driver for Spreader Screws
2	CHTIM	Inspection Mirror
3	CHT964S	Standard Length 9/64" Ball Tip Hex Driver
4	CHT964L	Long Length 9/64" Ball Tip Hex Driver
5	CHT332	Standard 3/32" Hex Key
6	CH3093	Complete Looper Assembly, specify type of needle shield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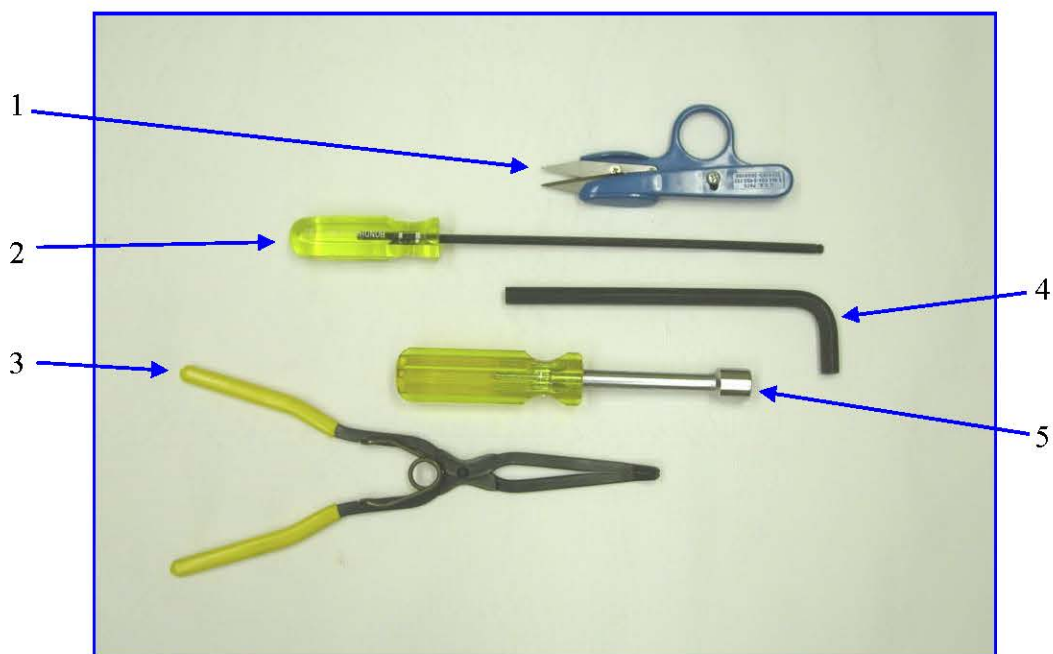


Item #	Part #	Description
1	CHT332XL	Extra Long 3/32" Ball Tip Hex Driver
2	CHT332S	Standard Length 3/32" Ball Tip Hex Driver
3	CHT964S	Standard Length 9/64" Ball Tip Hex Driver
4	CH440SHC	4-40 x 1/2" Socket Head Cap Screw
5	CH3091	Looper
6	CH3092SNG	Alternate Needle Guard
7	CH3093WSNG	Complete Looper Assembly with Alternate Needle Guard
8	CHT964L	Long Length 9/64" Ball Tip Hex Driver
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Emco 9000 Series Chainstitch Part Listing

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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
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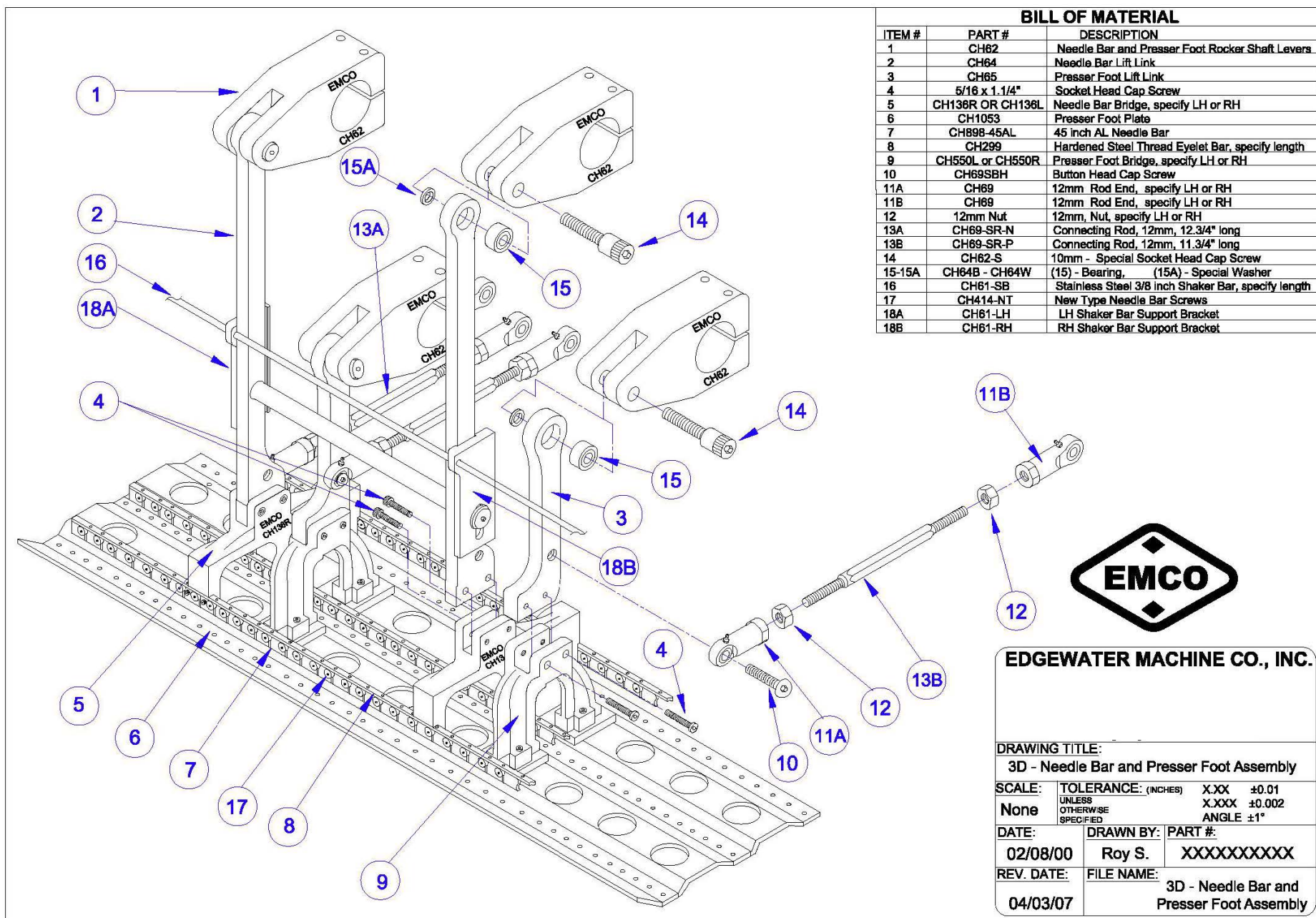
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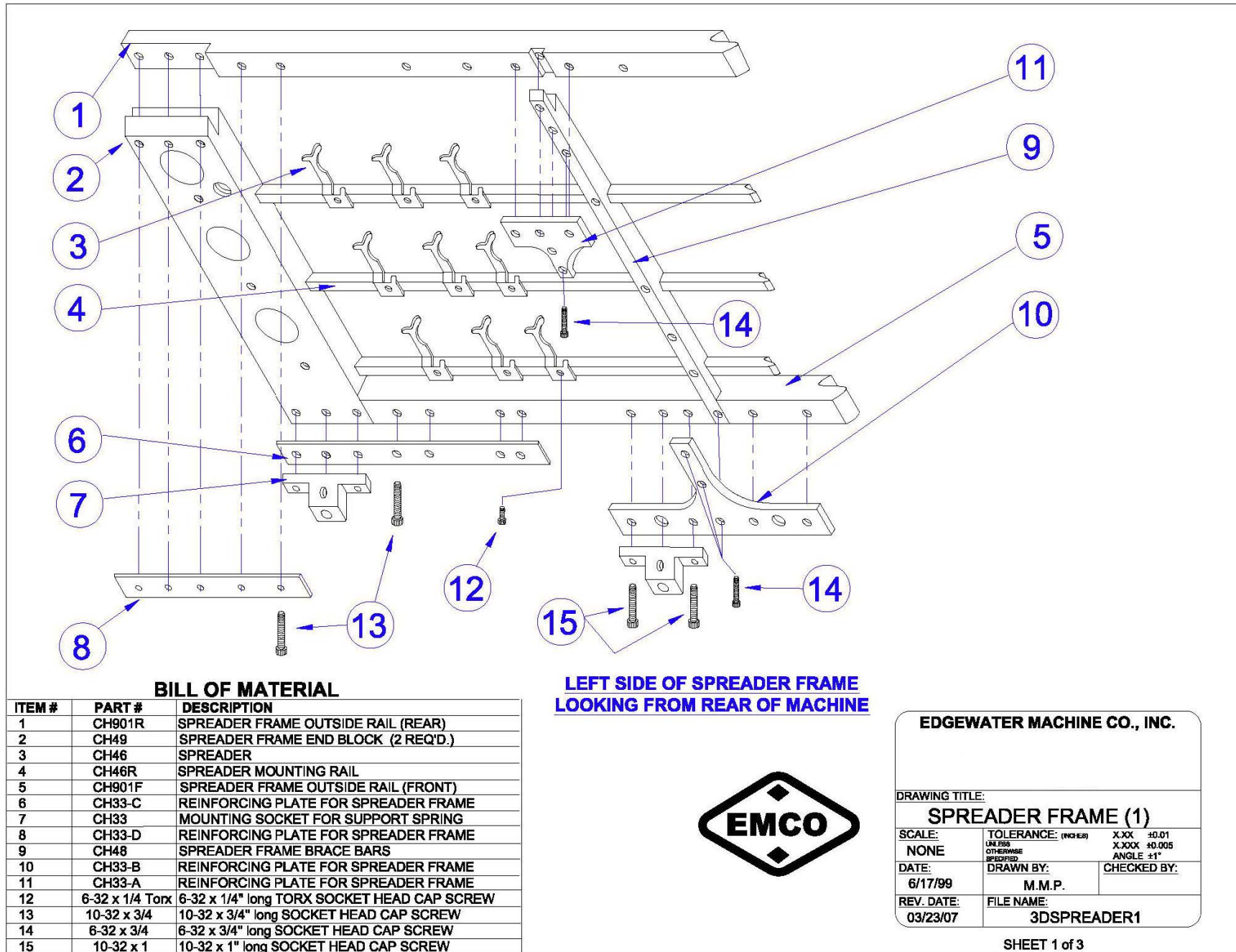
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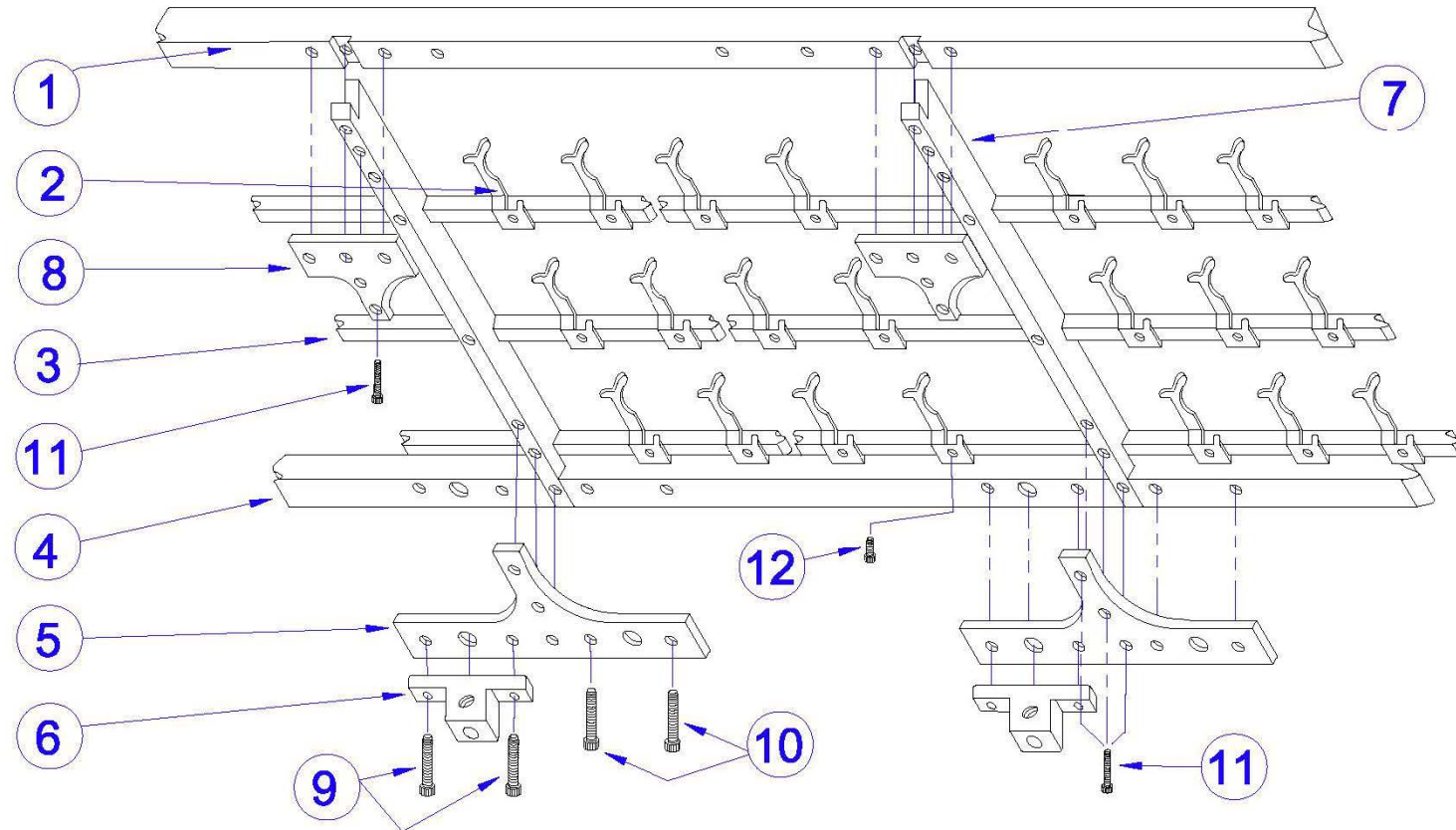


Item #	Part #	Description
1	CHTGG	Grease Gun
2	NEEDLE NOZZLE	Needle Type Nozzle for 6mm Rod Ends
3	CHTOG	High Performance Synthetic Grease
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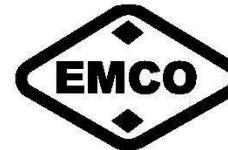




**CENTER SECTION OF SPREADER FRAME
LOOKING FROM REAR OF MACHINE**

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: NONE	TOLERANCE: (INCHES) UNLESS OTHERWISE SPECIFIED	XXX ±0.01 XXX ±0.005 ANGLE ±1°
DATE: 6/17/99	DRAWN BY: M.M.P.	CHECKED BY:
REV. DATE: 03/23/07	FILE NAME: 3DSPREADER2	

SHEET 2 of 3

**RIGHT SIDE OF SPREADER FRAME
LOOKING FROM REAR OF MACHINE**

BILL OF MATERIAL

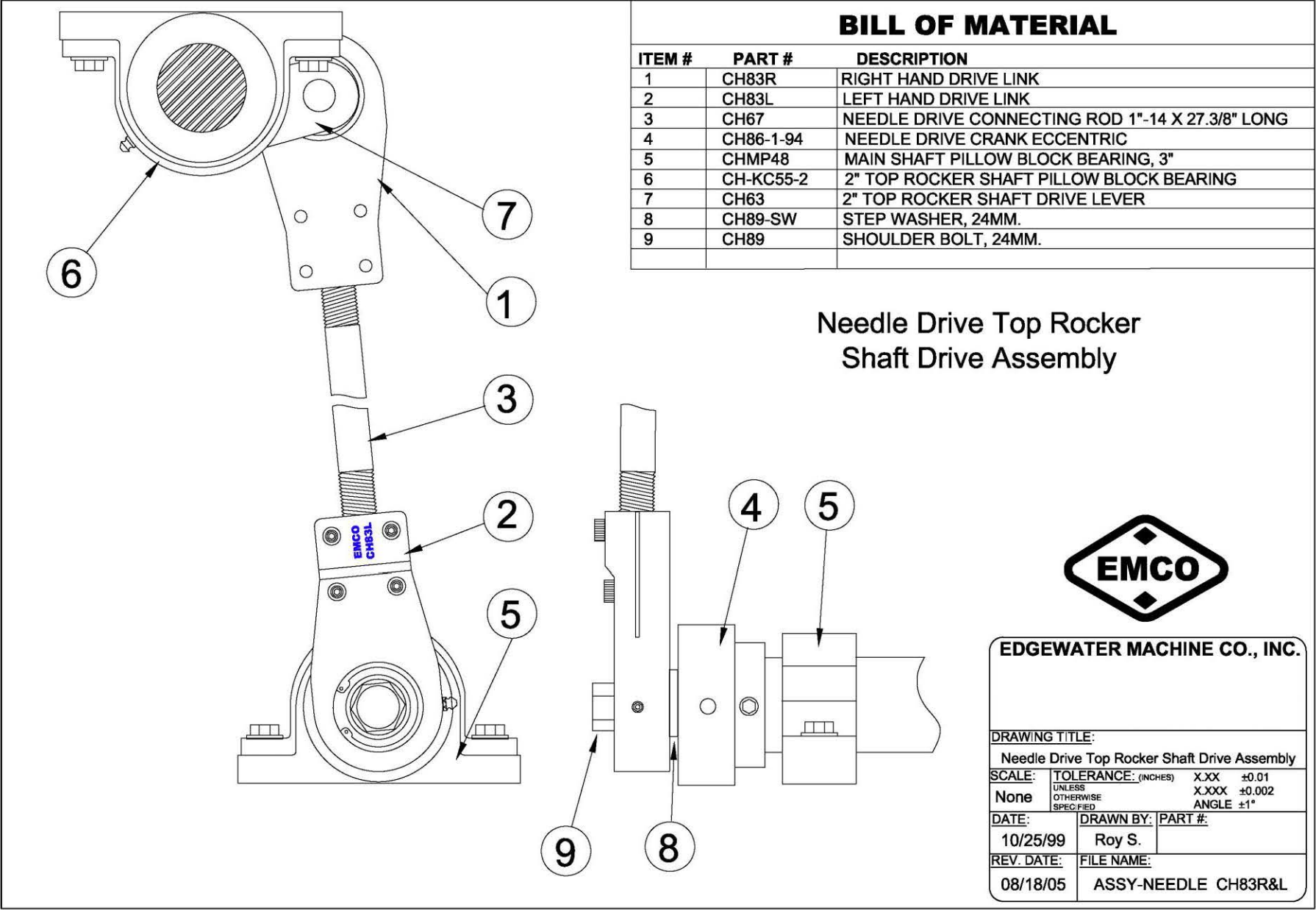
ITEM #	PART #	DESCRIPTION
1	CH901R	SPREADER FRAME OUTSIDE RAIL (REAR)
2	CH49	SPREADER FRAME END BLOCK (2 REQ'D.)
3	CH46	SPREADER
4	CH46R	SPREADER MOUNTING RAIL
5	CH901F	SPREADER FRAME OUTSIDE RAIL (FRONT)
6	CH33-C	REINFORCING PLATE FOR SPREADER FRAME
7	CH33	MOUNTING SOCKET FOR SUPPORT SPRING
8	CH33-D	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

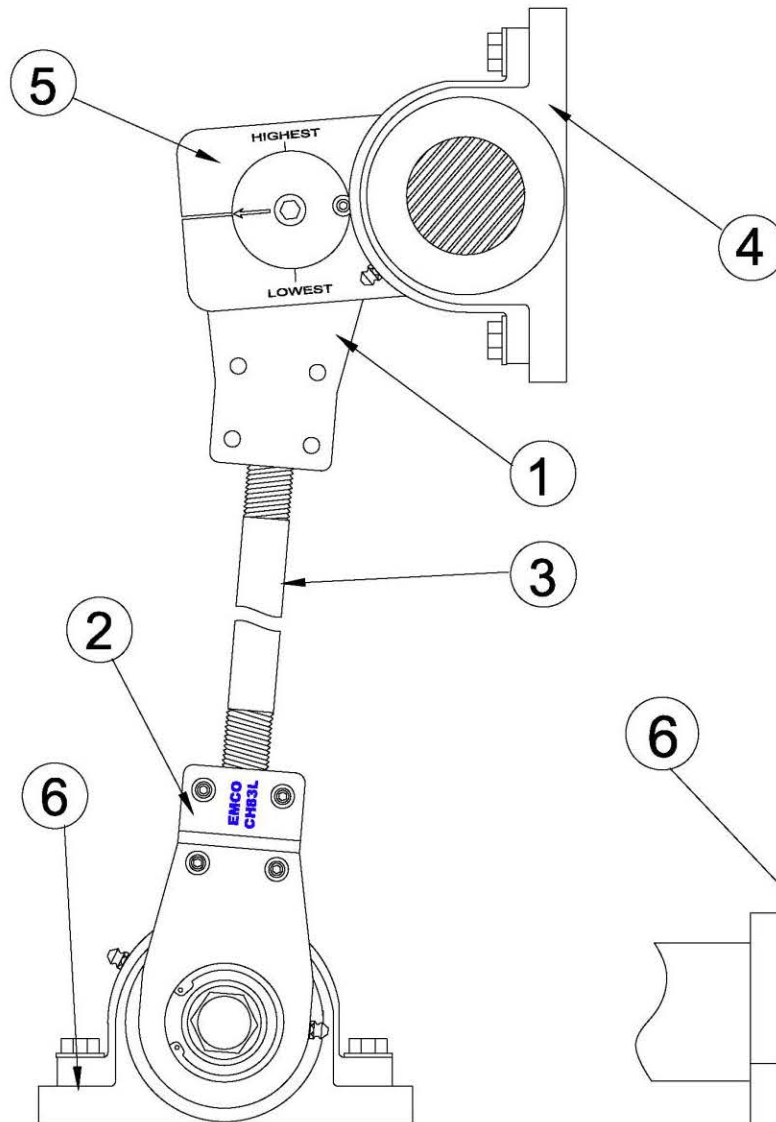
EDGEWATER MACHINE CO., INC.

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



**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

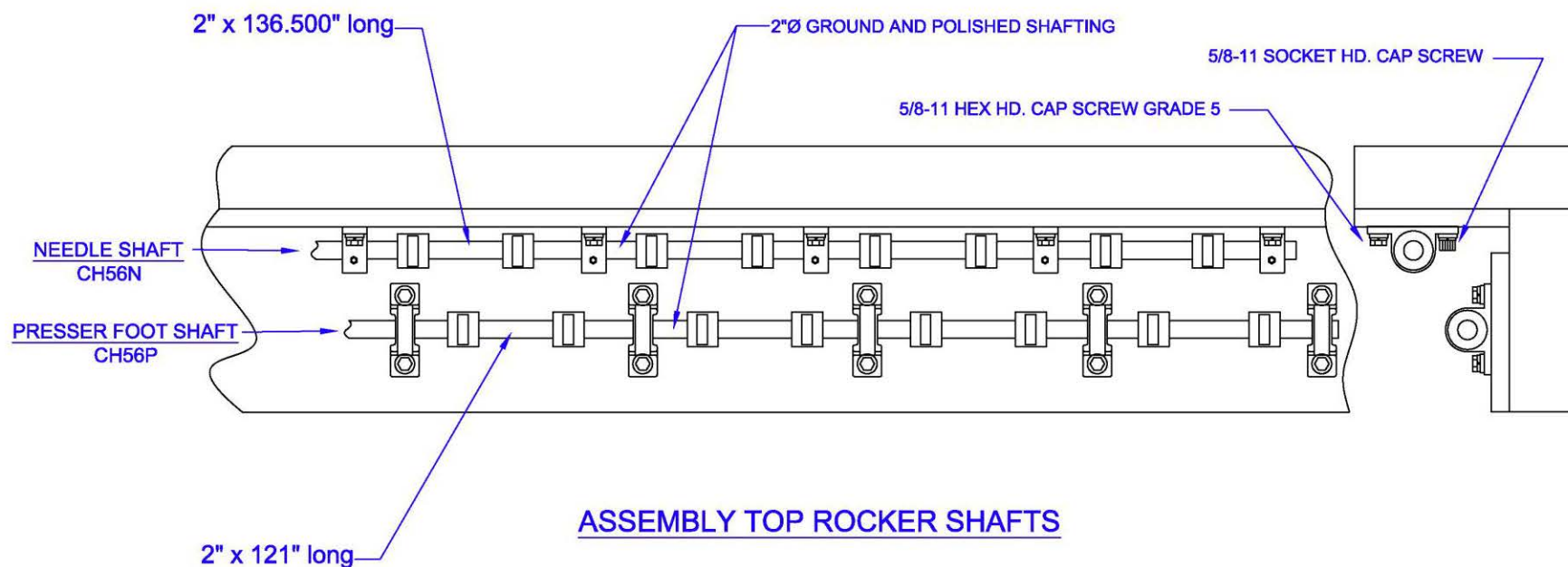
SCALE: TOLERANCE: (INCHES) X.XX ±0.01
 None UNLESS OTHERWISE SPECIFIED X.XXX ±0.002
 ANGLE ±1°

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.

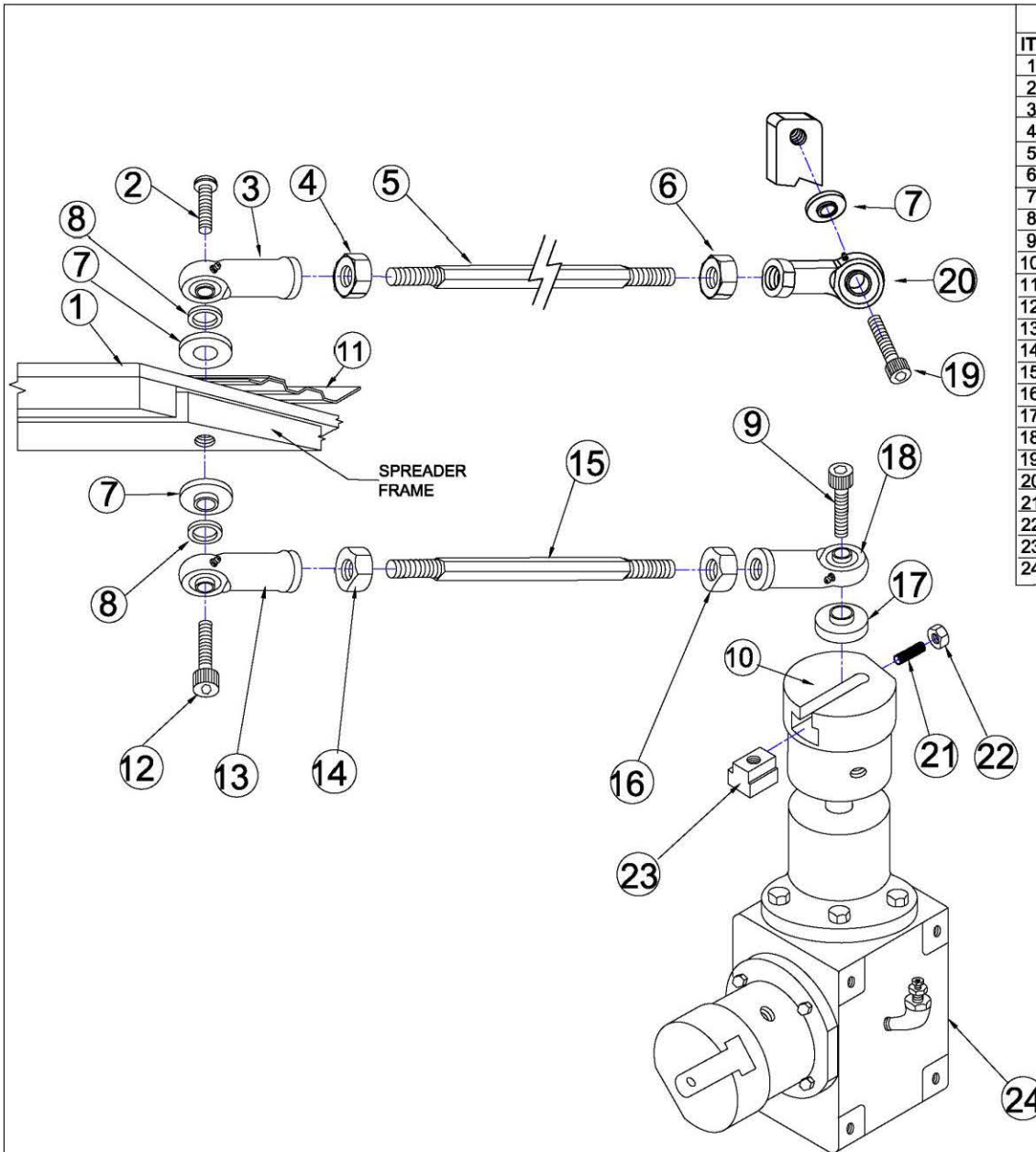
Front screws on top bearings are hex head cap screws.

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
NONE	UNLESS OTHERWISE SPECIFIED	X.XXX ±0.005
		ANGLE ±1°

DATE:

DRAWN BY:

CHECKED BY:

06/07/00

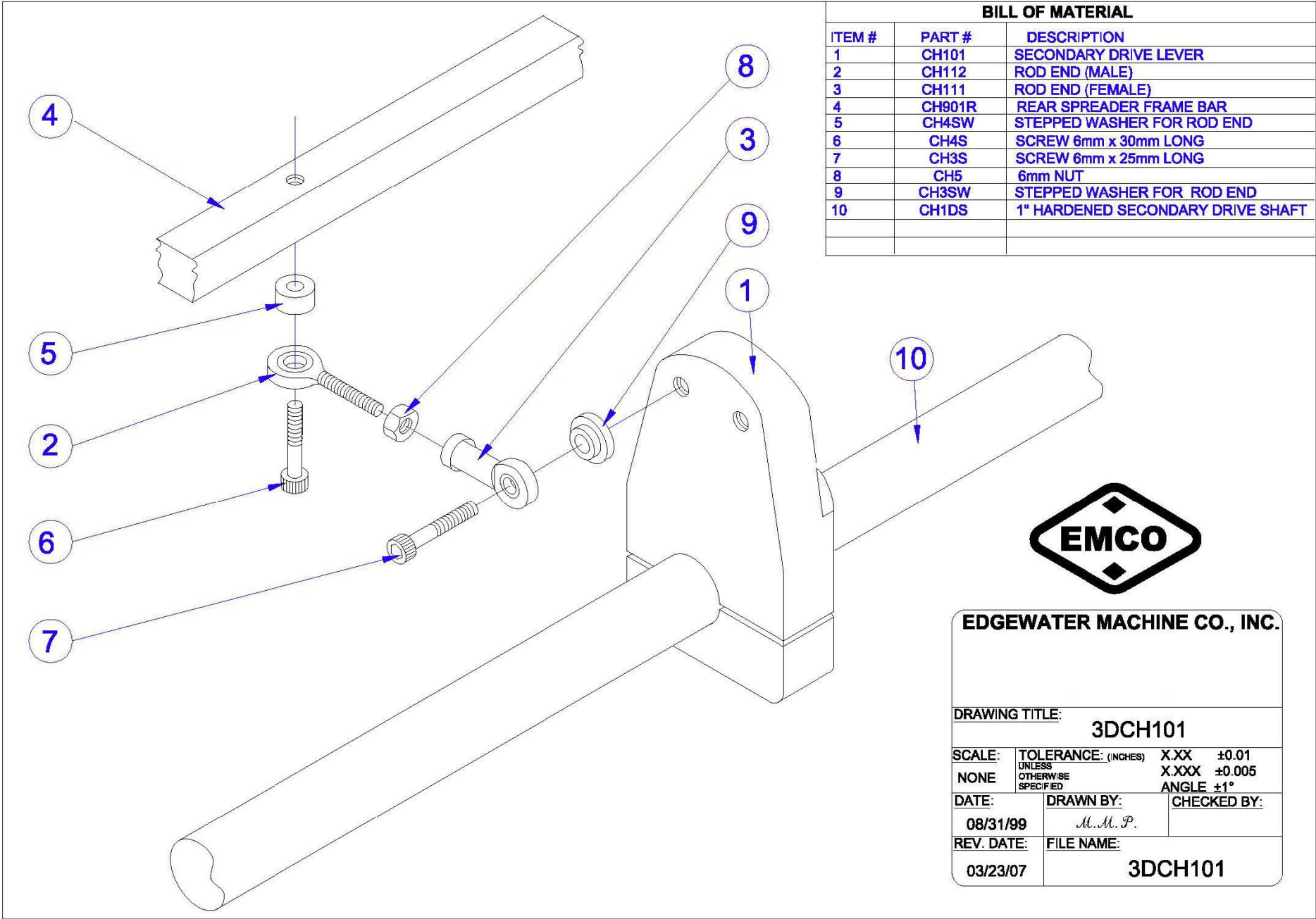
M.M.P.

REV. DATE:

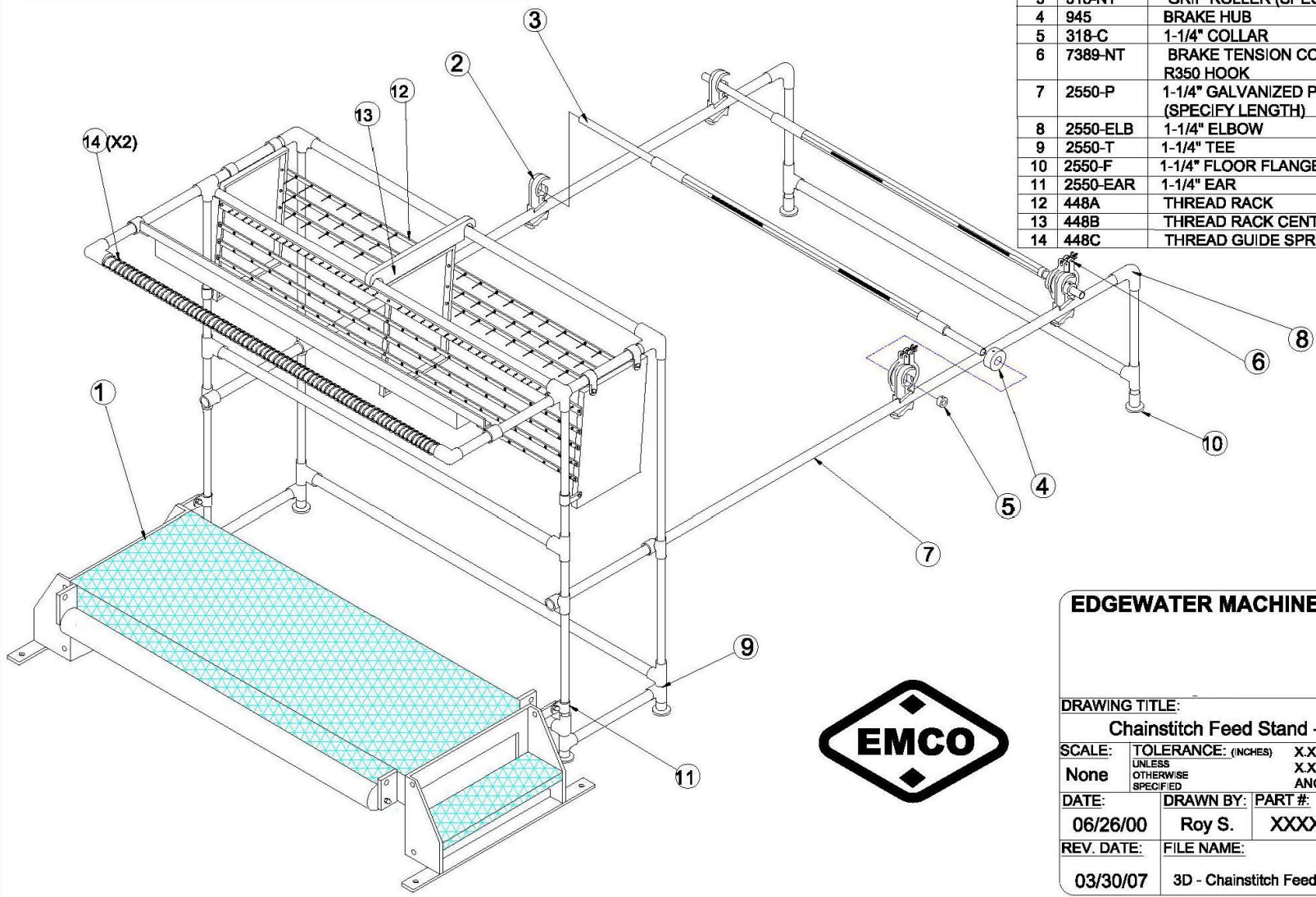
FILE NAME:

06/26/06

3DSPREADER FRAME L&R



**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: NoneTOLERANCE: (INCHES) X.XX ±0.01
UNLESS OTHERWISE SPECIFIEDX.XXX ±0.002
ANGLE ±1°

DATE: 06/26/00DRAWN BY: Roy S.PART #: XXXXXXXXXXXX

REV. DATE: 03/30/07FILE NAME: 3D - Chainstitch Feed Stand - 2 Roll