Operator's Manual Model 6016 Beader

16 Gauge Capacity



NMME LOCKFORMER

6016 Beader Parts List

PART NO.	DESCRIPTION	QUANTITY
14633	Bim Roll Collar	5
14634	Top Roll Cit.	5
19354	Top Feed Roll	3
19355	Btm Feed Roll	2
19356	Adjusting Screw	1
19357	Adjusting Screw	1
19358	Guide Post	4
21035	Entrance Gauge Bar	2
24268	Side Plate LH	1
24269	Side Plate RH	1
2 4 2 7 0	Pillow Blk	2
24271	Top Sproader	2
24272	M tg Plate	2
24274	Tap Plate	2
25058	Adjustment Lug	2
31916	W shr Aux Roll	4
33040	Mitg Bracket	2
33041	Chain Trough	1
38999	Instruction Sheet Pocket	1
39000	Pointer	5
40711	Pillow Block, 88710	2
43442	Sprkt, 60819, 71067, 1-1/8" Bare	
43457	Sprkt, 41813, 71144, 3/4" Bore	2
43615	Sprkt, 60815, 71069, 1-1/8" Bore	1
50164	Stand Weldment 5' Beader	1
50995	Caver Weldment Beader	1
52966	Entrance Table Weldment	1
57601	Stide Weldment 5' Beader	2
60091	HHCS, 3/8-16, 1	6
60094	KHCS, 3/8-16, 1-1/4, Partial Thread	4
60100	H H CS, 3/8-16, 3-1/4	4
60155	H H CS, 1/2-13, 1-3/4	6
60156	H H CS, 1/2-13, 2	6
60166	HHCS, 1/2-13, 3-1/2, Full Thread	2
60167	H H CS, 1/2-13, 3	4
60551	RHMS, 1/4-20 x 1/2	4
60575	RHMS, 10-24 X 3/8	7
60684	SSS, 3/8-16, 1/2 x 1/2 Dg Point	. 10
60686	SSS, 3/8-16 x 3/8, Dg Point	10
60877	Bolt,Carrdg 3/8-16 x 1-3/4	6
60982	SCR, LRG, 1/2 x 3-1/2	4
61120	Nut, Hex, 3/8-16 Heavy S.F.	2
61160	Nut, 1/2-13, Heavy S.F.	2

	GUANTITY
61260 Nut, Hex 3/4-10, Heavy S.F.	4
62029 Washer, Flat, 3/8, 7/8, 1/16	6
62071 Washer, Flat, 17/32, 1, 1/16	4
62363 Washer, Lack, 3/8, Med	10
62364 W SHR, Lock, 1/2 Med	1 2
62366 WSHR, Lock, 3/4, Med, Hardened & Grd	4
62400 Key, WDRF, #3	1
62403 Key, Woodruff, #18	2
62424 Key, Strt, 3/16, 3/16, 1/2	2
62431 Key, Strt, 1/4 1/4, 1-3/8	1
62503 Retaining Ring, 5100-112,Tru-Ar	10
62633 Pin, Dwl, 3/8 x 1	4
62740 Pin, Exp. 3/8 x 2 # 98396-A	4
65201 Plg, Pipe, 1/8-27 x 1/4, Skt Hd	6
66121 Brg, Hdl, HJ223020, 1-3/8 x 1-7/8	10
66420 Brg, Thest, 3/4 x 1-1/4 x 1/16, TT-1205	4
66428 Brg, Thrst, 7-1/8 x 2-1/4 x 1/16	10
6.6434 BRG,AA-1049,3/4 x 1-1/4	2
66488 BRG, IR-1820, 1-1/8 x 1-3/8 x 1-1/14 ST-	10
66640 Cann, Greaser, 1610, #1638	8
66644 Conn, # 161 3B, 1/8, 90°	2
70772 Chain, # 60, Offset Link	1
70773 Chain, # 60, Conn Link	1
70777 Chain, # 41, Link Con	1
70918 Hndl, # CL-5-HWSF w/ # CL-1-RH	1
71015 Sprg, Comp, 9562	4
71068 Sprkt, 60811, 1" bore w/KW & SS	1
71195 Roducer, Spd, # 4MCT, 25:1, -R	1
73014 Chain, # 41, 1/2, 24 Pitches per ft.	240
73019 Chain, # 60, 3/4, 16 Pitches per ft.	4 8
80201 Switch, 600 TAX5	1
80396 Htc, P37	1
80525 Cord, SIO, 14-3, 104, Strip 4-1	1
80602 Blk, Ring Tongue, Bl 4-10	15
80709 Wire, Black, 146A, MTW, 500' Roll	72
82124 Connector, 0.125" - 0.375" Dia.	1
84009 Motor, THP 115/230/1/60, 1800RPM	1
84862 Carflex, # 15005 1/2" Conduit	18
84864 Fitting, 1pc. 1/2" 90° LN 20DA	2
85156 Nameplate, Lockformer Capacity	1
85178 Nameşlate, Łockformer Loga	2
A835045 Guard Extension	1

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I/T: O DESCRIPTION: COMPLETE ASS'Y UM: EA υSED COMPONENT DESCRIPTION STOCK NUMBER I/T UM 5.00 14633 BTM ROLL COLLAR 5.00 14634 TOP ROLL CLR ĒΑ 3.00 TOP FEED ROLL 19354 ΞA 2.00 BTM FEED ROLL 19355 ΞA 1.00 ADJUSTING SCREW 19356 1.00 19357 ADJUSTING SCREW GUIDE POST 4.00 19358 EΑ 2.00 ENT GA BAR 21035 ΞA 1.00 SIDE PLT LH 24268 1.00 SIDE PLT RH 24269 €Α. 2.00 24270 ΞA PILLOW BLK 24271 TOP SPREADER 2.00 2.00 24272 ΞA MTG PLATE 2.00 24274 EΑ TOP PLATE 2.00 25058 ΞΑ ADJUSTMENT LUG WSHR AUX ROLL 4.00 31916 33040 MTG BRACKET 2.00 33041 CHAIN TROUGH 1.00 38999 INSTRUCT SHT PCKT 1.00 5.00 39000 EA POINTER 40711 PILLOW BLOCK, 88710 2.00 ĒΑ 1.00 43442 EΑ SPRKT, 60B19, 71067, 1-1/8"BORE 43457 SPRKT, 41B13, 71144, 3/4"BORE 2.00 ΞA SPRKT, 60B15, 71069, 1-1/8"BORE 1.00 43615 50164 STND WLDT 5' BEADR 1.00 50995 CVR WLDT BEADER 1.00 52966 1.00 ΞA ENT TBL WLD 5'BEAD 57601 EΑ SLIDE WLD-5' BEADR 2.00 59069 GEN ASSY BEADER 0.00 59294 STRT ROLL ASSEMBLY 0.00 HHCS_3/8-16X1 60091 6.00 60094 HHCS,3/8-16X1-1/4, PARTIAL THRD 4.00 60100 HHCS,3/8-16X3-1/4 4.00 60155 HHCS,1/2-13X1-3/4 6.00 HHCS,1/2-13X2 60156 6.00 60166 HHCS, 1/2-13X3-1/2, FULL THREAD 2.00 60167 4.00 ΞA HHCS, 1/2-13X3 60551 EΑ RHMS, 1/4-20X1/2 4.00 60575 E-A RHMS,#10-24X3/8 7.00 60684 SSS,3/8-16,1/2X1/2 DG POINT 10.00 SSS,3/8-16X3/8,DOG POINT 60686 EA 10.00 60877 BOLT, CARRDG, 3/8-16X1-3/4 6.00 EΑ SCR, LRG, 1/2X3-1/2 60982 EΑ 4.00 2.00

NUT, HEX, 3/8-16, HEAVY S.F.

09/2007 BOM OR WHERE USED FOR 750101 UM: EA I/T: O DESCRIPTION: COMPLETE ASS'Y (wisser) 01/09/2007

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		OM.	L.A	7 / 1	. O DESCRIPTION. COMPLETE MSS T		7111
	STOCK 66121 66420 66428 66434 66488 66640 66644 70772 70773 70777	NUMBER	1/T	E A E A E A E A	COMPONENT DESCRIPTION BRG,NDL,1-3/8X1-7/8X1-1/4 BRG,TT-1205,3/4X1-1/4X1/16 BRG,THRS,1-1/8X2-1/4X1/16	(MORE)	QT) USED 10.00 4.00 10.00 2.00 10.00 8.00 2.00 1.00 1.00 1.00
	71015 71068 71195 73014 73019 80201 80396		4444	EA EA EA EA	SPRG,COMP,9562 SPRKT,60B11,1"BORE W/KW&SS REDUCR,SPD,#4MCT ,25:1,- R CHAIN,#41,1/2"PI,100'=2400PI CHAIN,#60,3/4"PI,100'=1600PI TOGGLE SWITCH HEATER		4.00 1.00 1.00 252.00 48.00 1.00
	80525 80602 80709 82124 84009 84862	, C	4 4	EA IN EA EA	SJO CORDSET, 14-3 WIRE, 10'L, RING TONGUE TERMINAL, BLACK MTW, 14GA.BLACK, 600V, 500' CONNECTOR, 0.125"-0.375"DIA. MOTOR, 1HP 115/230/1/60, 1800 1/2" CONDUIT, 500' ROLL	(MORE)	1.00 15.00 72.00 1.00 1.00 18.00
	84864 85156 85178 AB3504	SIPPL	2	EA EA EA	FITTING, 1/2", 90 DEG NAMEPLT, LOCKFORMER CAPACITY GA NAMEPLT, LOCKFORMER LOGO 20 GA. GUARD EXTENSION	(MORE) (MORE)	2.00 1.00 2.00 1.00
FORM 1411-2G-0	61160 61260 62029 62071 62363 62364 62366 62400 62403 62424 62431 62503 62633		*****		NUT, HEX, 1/2-13, HEAVY S.F. NUT, HEX, 3/4-10, HEAVY SF WSHR, FLAT, 3/8, 7/8, 1/16 WSHR, FLAT, 1-7/32, 1, 1/16 WSHR, LOCK, 3/8, MED. HEL. SPRG. WSHR, LOCK, 1/2, MED. HEL. SPRG. WSHR, LOCK, 3/4, MED. HEL. SPRG. KEY, WOODRUFF, #3 KEY, WOODRUFF, #3 KEY, WOODRUFF, #18 KEY, STRT, 3/16, 3/16, 1/2 KEY, STRT, 1/4, 1/4, 1-3/8 RETAINING RING, 5100-112 TRUARC PIN, DWL, 3/8X1	(MORE)	4.00 6.00 4.00 10.00 12.00 4.00 2.00 2.00 1.00 10.00 4.00
	A2740		14	ΞA	PIN EXP.3/8X2 #98396-A		4.00

WARRANTY

Our guarantee on the products we manufacture is limited to repair or replacement without charge, of any part found to be defective in materials or workmanship. This guarantee is for a period of one year (unless otherwise specified) from the date of shipment from our factory, for all mechanical features of the machine, except purchased components that carry the warranty of the original manufacturer.

Warranty parts and components will be shipped freight collect from Lisle, Illinois. If the defective part has not been received by Lockformer within 15 working days after receiving the replacement part, your company will be responsible for the cost of replacement.

The warranty provided in this clause is in lieu of all other warranties, express or implied, arising by law or otherwise, including the implied warranties of merchantability and fitness for a particular purpose which are hereby disclaimed by Lockformer and excluded from this agreement. This warranty shall not be modified for any reason. In no event shall Lockformer be liable for consequential or incidental damages.

The information in this document has been reviewed and is believed to be completely accurate. However, no responsibility is assumed for inaccuracies. Furthermore, the LOCKFORMER COMPANY reserves the right to make changes to any products herein, at any time, to improve reliability, function, or design. The LOCKFORMER COMPANY does not assume any liabilities arising out of any use of any product described herein, neither does not convey any license under its patent rights nor the rights of others.



SAFETY GUIDELINES

You are not ready to operate this equipment if you have not read and understood the safety information in this manual.



WARNING:

Do not wear loose clothing, neckties, improper gloves, or jewelry while operating this machine. If long sleeves must be worn, avoid loose cuffs or buttons. Tie back or contain long hair.

Wear proper gloves to prevent lacerations caused by sharp edges of stock as it travels through the forming operation.

Be alert for loose, worn, or broken parts. Never operate this equipment unless it is in good working condition.

As the stock feeds into the rolls, a pinch point is created as the stock advances. Keep hands clear of this and all pinch points. **KEEP ALL COVERS IN PLACE WHEN OPERATING THIS MACHINE.**

Remember that the information contained in this manual is only a portion of an adequate training program. It must be coupled with specific instructions for your application along with full information of national and local safety regulations that may apply.

SAFETY FIRST

Common sense and **extreme** care must be used at all times during the operation and maintenance of this equipment. It is important that **ALL** personnel who will operate, maintain, or supervise the use of this equipment, read and understand the sections of this manual concerning **SAFETY** and the **OPERATION** of the equipment.

The equipment described in this manual was designed and manufactured for a specific function. It should not be used for any other purpose or outside of the design specifications as this may be hazardous. Modifications or additions to this equipment should not be made without consulting The Lockformer Co.

Replacement and maintenance parts should be equal to the original equipment. Use of other parts may result in unsafe operation. If there is a question to the suitability of a part, The Lockformer Co. should be consulted.

In general, every piece of equipment must be treated as dangerous. While operating or maintaining this equipment, each person must be aware of his own safety as well as the safety of all bystanders.

SAFETY SIGN-OFF SHEET

It is the employer's responsibility to instruct all persons who may come in contact with this equipment on the safe operation and maintenance of this equipment. Have each person read the sections of this manual concerning SAFETY and the OPERATION of the equipment. If a language barrier or other restriction limits understanding, this manual can be read to the individual with appropriate follow up questions to verify understanding. Have each individual sign below only after demonstrating their understanding of the safety practices described in this manual.

I verify that I have read and understand the safety and operation sections for this equipment installation:

NAME	DATE	NAME	DATE
THE.			
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INSTALLATION

Provide a clean, flat, well lighted installation site. Level the machine and anchor it to the floor, inspect the drive assembly, and remove any debris that may have accumulated during shipping and or installation.

Standard electrical installation requires a 110 volt grounded power supply. Provide a 110 volt receptacle at the point of operation. If a 230 volt motor is ordered, install the power supply in compliance with local and national electrical codes. For further information, contact a certified electrician or the Lockformer Service Department at (630) 964-8000.

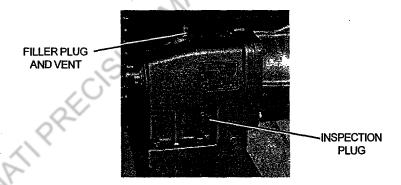
OPERATION

Turn machine on and feed material against the right or left hand gauge bar into rolls. Standard 6" from edge and on 12" beaded centers apply from either gauge bar.

LUBRICATION

Gearmotor

Keep the gearbox filled properly to assure trouble free operation. To check the oil level remove the inspection plug on the side of the gearbox. If oil level is not up to the hole, remove the filler hole plug in the top of the gearbox and add clean Texaco 220 Meropa oil or equivalent to achieve the proper level. Check lubricant level in speed reducer approximately every 3 months, more often under heavy use.

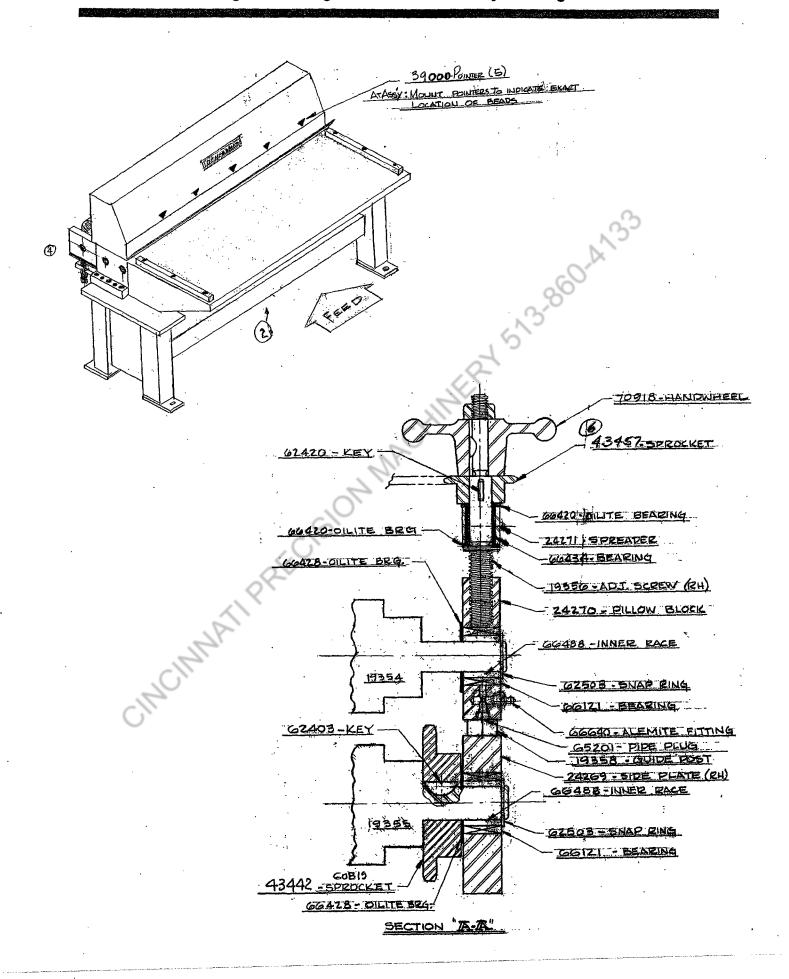


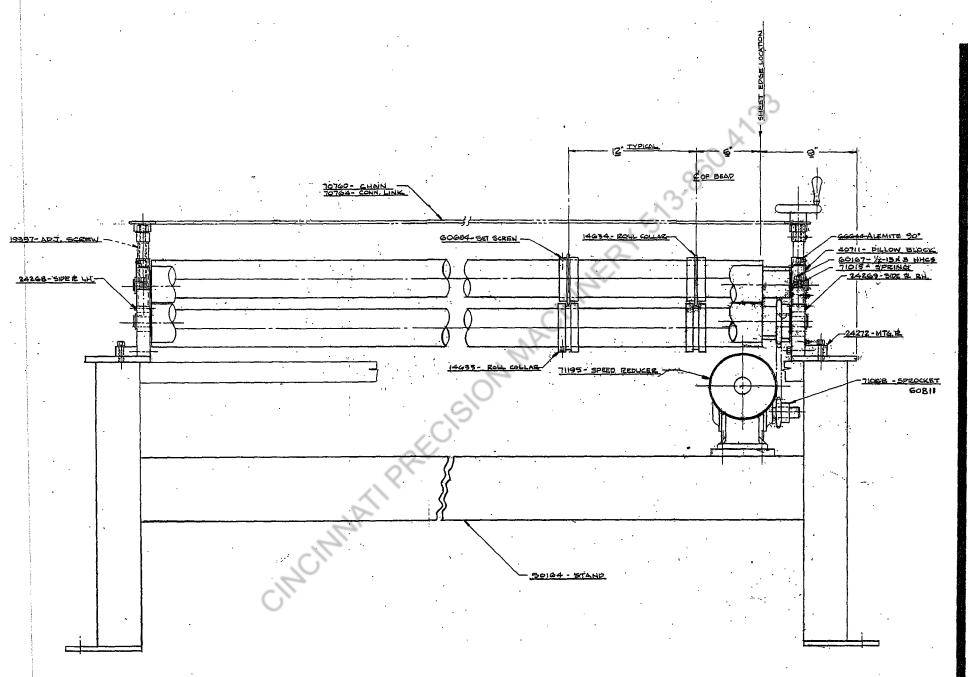
Bearings

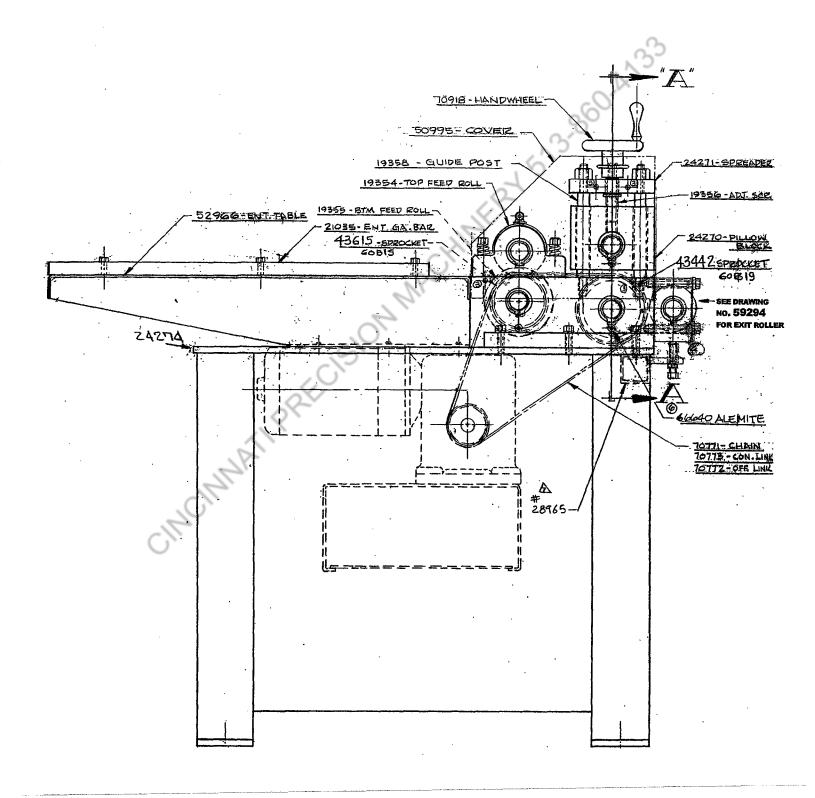
After every 40 hours of operation lubricate both grease fittings on each side of the machine with Castrol Molub-Alloy 777-1 ES grease or equivalent.

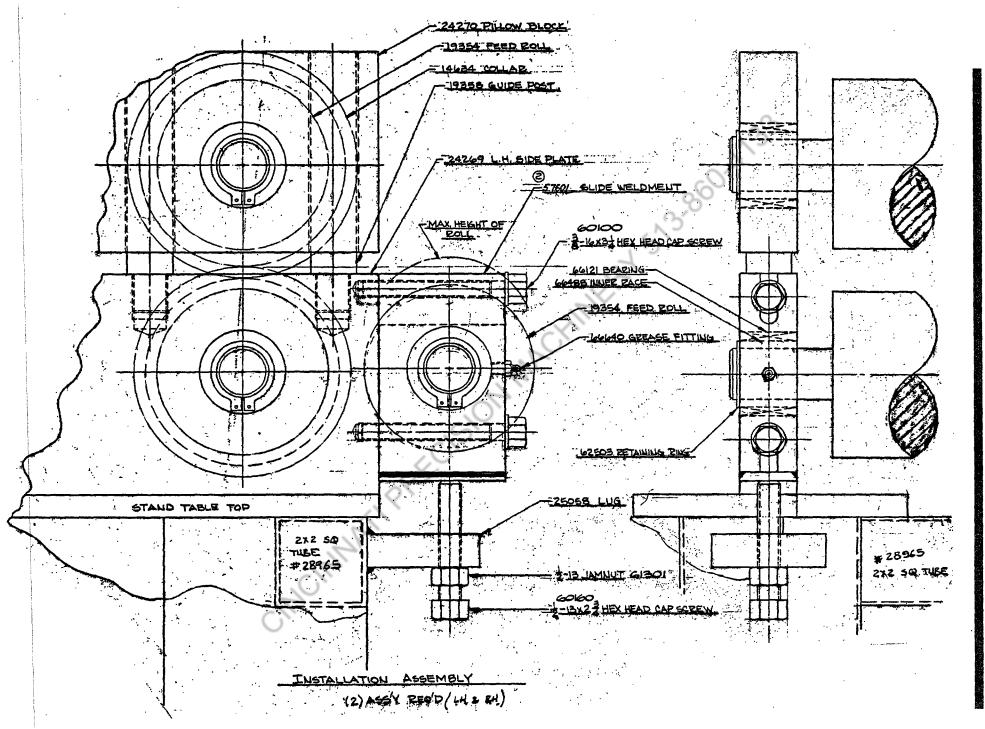
Chain Drive

Proper maintenance is essential to minimize wear to the drive train components. Always keep chains clean and well lubricated to reduce friction and prolong the life of all load carrying components. Lubricate with light machine oil. Check the alignment of the sprocket and inspect all parts for abnormal wear frequently. Replace worn parts to prevent untimely component failure. Excessive vibration or noise usually indicates that a potentially serious problem exists.









COLLAR INVERSION

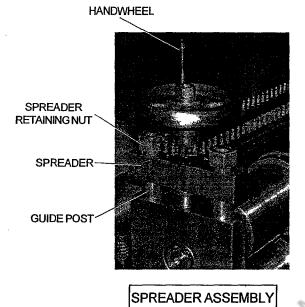
Step 1: Top Roller Assembly Removal

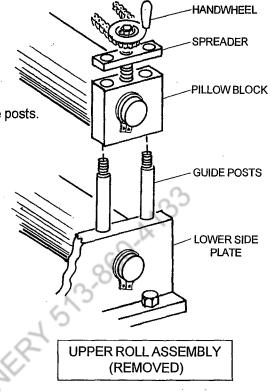
Disconnect Power and install lockouts/tagouts.

Remove the cover (50995).

Remove (4) nuts retaining the spreader to guide posts.

Lift pillow blocks and upper roll assembly off of the guide posts.



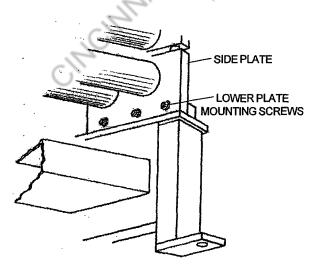


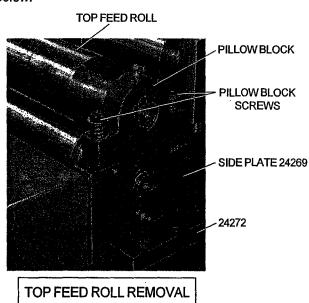
Step 2: Bottom Roller Removal

Disconnect the drive chain.

Remove the 6 lower plate mounting screws located on the inside of the side plates (24268, 24269), 3 on each side of the machine.

Using an appropriate lifting device, remove the lower roll assembly from stand. See *illustration below*. To ease bottom roller disassembly, remove the top feed roll by loosening the (4) pillow block screws and lift the feed roll assembly out of way. See photo below.





Step 3: Top and Bottom Roller Disassembly

Remove retaining rings on the lower roll shafts extending outside of the side plates. Separate the shafts from the side plates.

A CAUTION

The rolls have a tendency to roll together when a side plate is removed. Place a wooden block between them to prevent a crushing hazard.

Remove the collars (bead forming rolls) as outlined in Step 4.

Step 4: Collar Removal and Inversion

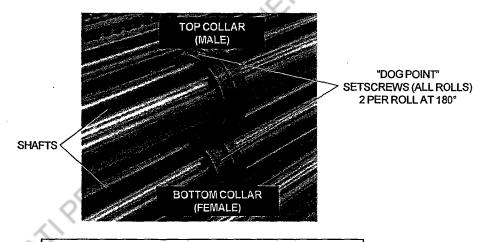
Loosen the set screws.

Slide all top collars off top shafts and replace with bottom collars.

Put top collars onto the bottom shaft.

Re-assemble the machine in the reverse order of disassembly. Be sure to "mate" the top and bottom collars. Re-connect the chain.

REPLACE THE COVER. Remove the lockouts/tagouts.



Note:

Due to differences in dimensions between upper and lower collars, mating set screw holes in rollers will not align properly. After determining proper collar position, it will be necessary to re-drill new holes to accept "dog point" of the setscrews.

ADJUSTMENTS

Bead Depth

Adjust bead depth as desired. NOTE: When the bead depth is too deep, down bow will result.

- A. Front feed rolls are preset and spring loaded to accommodate all gauge materials, 16 gauge and lighter. Reference hold down stud setting: tighten all four studs then loosen 1-1/2 to 2 turns. If, when running light gauge material, a stretch occurs in the sheet, loosen the studs to remove stretch.
- B. Bead rolls are heat treated and firmly affixed to support rolls with recessed dog point set screws

Entrance Gauge Bar Squaring

Be sure that the entrance gauge bar is square to the collars. To square the gauge bar, place a carpenter's framing square against the collars. Position the gauge bar against the 90 degree leg of the square and firmly fasten it in place.

Due to continuous improvements, Lockformer reserves the right to modify the product design and specifications contained herein without notice.

Please contact your Lockformer sales representative for the most current specification information.

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NMME LOCKFORMER

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