Operating Instructions

LOCKFORMER

Where the Machines of Tomorrow are Made Todaysm

TRIPLEX CLEATFORMER AND "S" AND DRIVE CLEAT CUTTER ATTACHMENT



THE LOCKFORMER COMPANY

H. WEISS MACHINERY & SUPPLY

Instructions

ELECTRICALS:

5 HP 230/460 volt three phase motor and controls, standard machine wired for 230 volt unless otherwise indicated.

MACHINE SPECIFICATIONS:

"S" CLEAT

Capacity: 22 gauge galvanize or lighter Stock Width: 3-5/8" + 000-1/32

DRIVE CLEAT

Capacity: 20 gauge galvanize or lighter Stock width: 2-1/8" + 000-1/32

OPERATION:

A. Strip Stock Start machine and place properly sheared material between gauge bars and feed material into the rolls.

Check end results and make changes accordingly.

B. Sheet Feed with Slitter (Optional)

Start machine and place sheet against proper gauge bar and feed material into the slitting rolls being sure to keep sheet against gauge bar. Do not force or try to influence the sheet in any way. Machine will automatically feed cut sheet into the forming rolls and deflect balance of sheet over machine cover. On long sheets, best results will be had by turning sheet so that the trail end on the first cut becomes the lead end on the second cut, etc. This procedure will eliminate any tendency for "Trailing-Off" on the slit part.

Instructions

ADJUSTMENTS:

The top plate and roll assembly is split into 3 zones of 3 rolls each with simple six point adjustment for each zone. Begin adjustment by tightening all hold down nuts to their solid position then loosen as follows:

- A. Zone 1 all studs 1/2 turn loose
- B. Zone 2 all studs 3/4 turn loose
- C. Zone 3 all studs 1 turn loose

Should machine labor under load stud settings should be loosened 1/8 to 1/4 turn.

Upward bow can be adjusted by lowering the exit adjusting screw located on the exit adjustment gauge assembly. Downward bow can be compensated by adjusting the hold down studs located at the exit end of the machine. Side bow is caused by an unbalanced stud adjustment.

LUBRICATION:

Lubrication fittings for the high speed shafts are located under the stand auxiliary side panel. The high speed bearings should be lubricated after every eight hours of operation (recommended lubricant-Standard Oil Viscous #3, or equivalent.)

Roll stations #4 and #5 (part 11144 and 11145) on "S" Cleat are supplied with three polished angle surfaces to eliminate friction and allow the material to flow smoothly during the forming sequence. The rolls should be lubricated periodically with an application of #20 or #30 SAE lubricating oil to insure a smooth sliding surface.

NOTE: If machine is to be used or stored out-of-doors, an oil or grease film will prevent rusting of surfaces.

INSTRUCTIONS FOR AUXILIARY ROLLS:

Machine auxiliary shafts are designed to accommodate various auxiliary roll sets listed below. To install these rolls, proceed as follows:

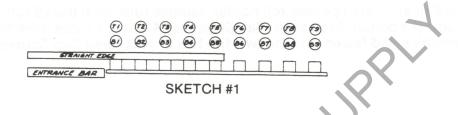
- Remove machine cover.
- Remove table top side plate on side of machine rolls are to be mounted.
- 3. If auxiliary rolls are now on machine, remove retaining bolts and washers. Remove all parts not pertaining to the set to be used.
- 4. Place keys on shafts.
- 5. Select the first pair of rolls which are marked "T-1" and "B-1" and place them on the shafts at the entrance of the machine (Feed Side). Place the "T-1" roll on the upper shaft and "B-1" on the lower. Repeat procedure with roll stations #2, #3, and #4, etc. until all rolls have been mounted. All rolls marked "T" should be mounted on the top shafts and "B" rolls on the bottom shafts in numerical order. **NUMBER SIDE OF ROLLS MUST FACE OUTWARD.**

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6. After rolls are installed, fasten rolls with retaining cap screws and washers.

Instructions

7. Mount entrance and exit gauge bars to stand, using slotted holes provided in stand table top and set entrance gauge by placing a straight edge along the outer edge of the auxiliary rolls; measure the required amounts in from this straight edge to the extreme ends of the entrance gauge bar. See schedule below for various auxiliary sets.

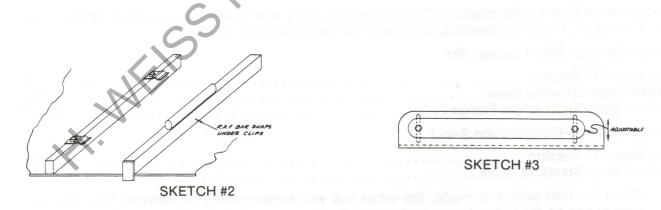


Auxiliary Roll Gauge Settings:

- A. Type "S" double seam (22 gauge and lighter) uses approximately 1" material.

 Gauge Setting(Front) 1-1/8" (Back) 1-3/16"
- B. Type "L" double seam (18 to 20 gauge galvanize) 7/16" pocket uses approximately 1-1/8" material. Gauge Setting(Front) 1-5/16" (Back) 1-3/8"
- C. Standing seam rolls (18-22 gauge galvanize) 3/4" height uses approximately 2-1/8" per completed seam. Forms both single and double edge by simple gauge attachment.

NOTE: Two piece entrance gauge supplied. Drilled bar should be mounted to stand with clips in order to form standing seam. Gauge setting to drilled bar . . . 2". Second gauge bar snaps under clips and is used for right angle flange. See Sketch #2:)

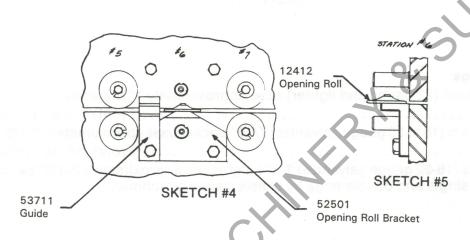


The top #8 and #9 rolls are fastened by bolts and are allowed to float. The exit angle iron has an adjustable bar that can be lowered to exert pressure on the material, as it emerges from the rolls; thereby, straightening the finished section. See Sketch #3: Set exit gauge to the standing seam shape.

Instructions

D.	Right angle flange rolls (16-24 gauge galvanize) on straight pieces only. Adjustable to 7/16" high
	Gauge Setting1-5/16'
E.	5/16" Auxiliary Pittsburgh (20 gauge and lighter) uses approximately 1" material.
	Gauge Setting1-11/16" to 1-3/4"
	A slight taper in gauge setting may be required.

NOTE: To install auxiliary opening roll holder, remove rolls from the #6 roll station and bolts that straddle the bottom 6 roll shaft (See Sketches #4 and #5). Place opening roll holder and slide on machine and fasten with the two 1/2-13 x 2" Hex Head Cap Screws provided.



		The state of the s
F		ve Cleat Auxiliary (20 gauge and lighter) uses 2-1/8" material.
	Gai	uge Setting
G	i. Co	mbination 3-in-1 rolls (capacity 22 gauge and lighter), also 2-in-1, uses approximately 1-3/4" "T" section, 1-1/8" on standing seam and 1/2" on right angle flange.
		uge Setting- 3-in-1 Gauge Bar:
		o Step-"T" Section
	Ga	uge Settings-Combination 2-in-1
	Top Bot	Step-"T" Section
Ν	OTE:	

WHEN ADJUSTING THE EXIT GAUGE FROM THE 3-IN-1 COMBINATION, BE SURE TO

SET IT TO THE "T" SECTION OR DAMAGE WILL RESULT BY MATERIAL INTERFERENCE

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NOTE:

WITH THE GAUGE BAR.

Instructions

H. Female Button Punch Snaplock (20 to 26 gauge galvanize) uses approximately 1-5/16" of material.

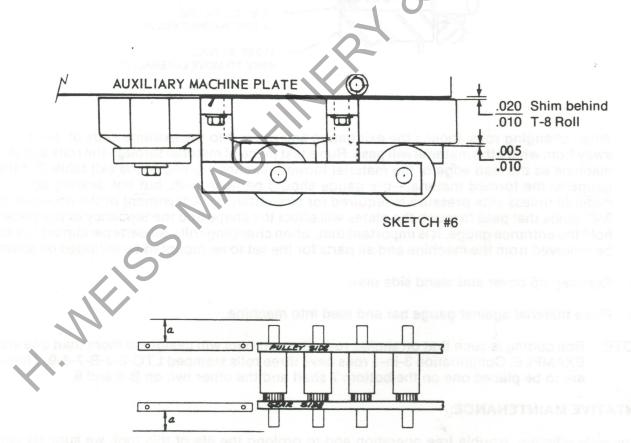
Gauge Setting: 2-5/16" closest to forming rolls, 2-11/32" furthest from forming rolls. Taper may be increased or decreased as required for most satisfactory results.

Upward bow can be adjusted by raising or lowering the straightener roll located between stations 8 & 9.

NOTE: To install slide between stations 2 and 3, remove existing idler gear bolt and replace with longer bolt furnished with roll set.

I. Male Button Punch Snaplock (20 to 30 gauge galvanize) uses approximately 7/16" of material.

NOTE: Remove existing bolts between Top 4 and 5 rolls and Top 5 and 6 rolls and replace with idler bracket and bolts provided with rolls set. See Sketch #6 and #6A.

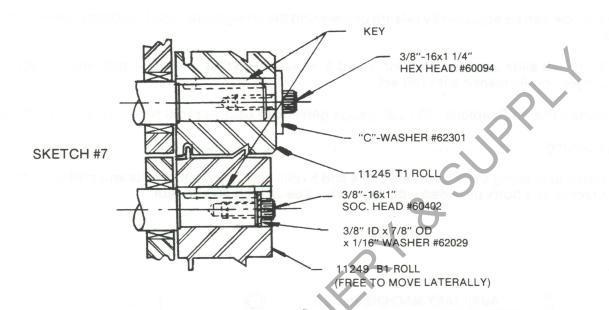


(a-a) SEE ROLL SET TO BE USED

SKETCH #6A

Instructions

CAUTION: Bottom #1 roll is not fastened with retaining "C" washer. Severe damage will result to roll if instructions are not followed. See Sketch #7.



- 8. When changing rolls, loosen the exit gauge and move it to the extreme ends of the table slots away from where the material will pass. Run a test piece of material through the rolls and stop the machine as the lead edge of the material formed reaches the end of the exit table. Set the exit gauge to the formed material—the gauge should be flush with, but not bearing against, the material unless side pressure is required for straightening. Adjustment of the pressure on the 3/8" studs that pass through the plates will effect the shape and the tendency of the material to hold the entrance gauge. It is important that, when changing rolls, all parts pertaining to each set be removed from the machine and all parts for the set to be mounted be included on assembly.
- 9. Replace top cover and stand side plate.
- 10. Place material against gauge bar and feed into machine.

NOTE: Roll coding is such that on similar rolls, the numbers will designate more than one station. EXAMPLE: Combination 3-in-1 rolls have three rolls stamped LTC-2-3-B-7-8-9. These rolls are to be placed one on the bottom 7 shaft and the other two on B-8 and 9.

PREVENTATIVE MAINTENANCE:

To provide efficient, trouble free operation and to prolong the life of this tool, we suggest periodic cleaning of all rolls to remove any galvanize build-up. Galvanize build-up can be reduced to a minimum by applying a light bodied lubricant such as LOCKFORMER GALV-OFF to the forming rolls every six to eight hours of operation.

All bolts and nuts should be tightened every month or more often as required. Transmission belts should be checked for wear and proper tension periodically. Air intake vents on motor should be kept clean to insure proper ventilation.

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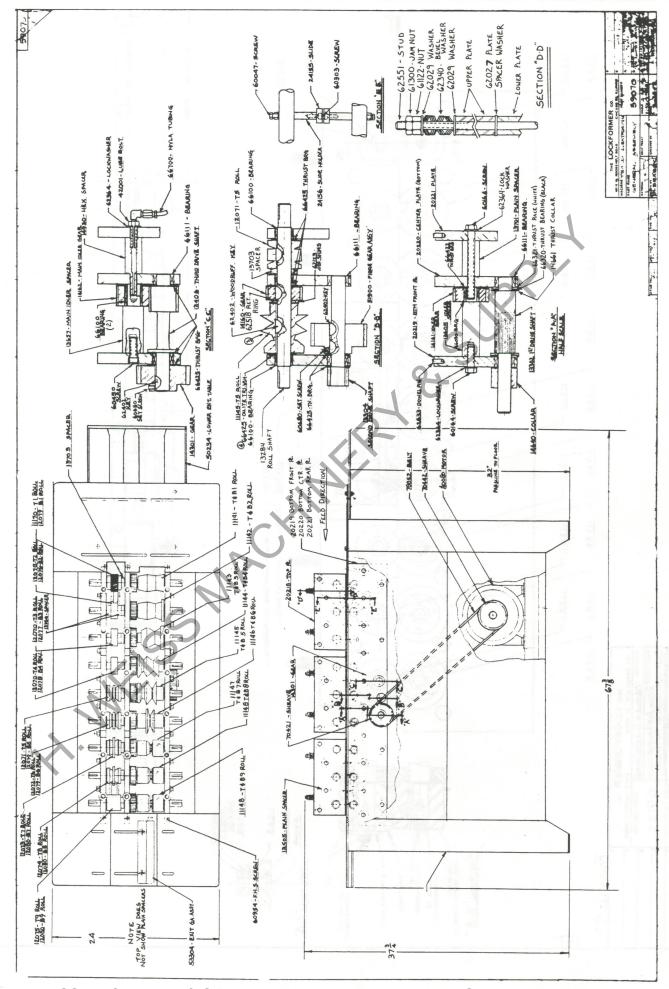
Parts List

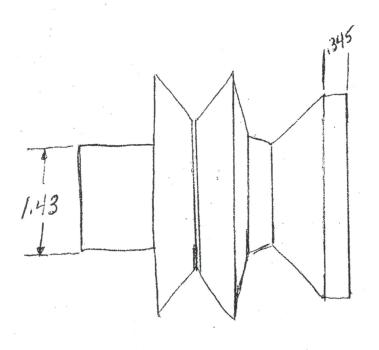
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Forming Roll Drive Cleat T5 Forming Roll Drive Cleat T6 Forming Roll Drive Cleat T7 Forming Roll Drive Cleat T8 Forming Roll Drive Cleat T9 tom Forming Roll Drive Cleat B1 tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 1 1 1 1 1 1 3 3	42001 58512 51041 51900 53304 60047 60052 60090 60097	Lube Bolt Stand Cover Fiber Gear Assembly Exit Gauge ("S" Cleat) 5/16-18 x 3/4 HHCS 5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS 3/8-16 x 3/4 HHCS	1 1 1 1 1 1 5 1 4
Forming Roll Drive Cleat T6 Forming Roll Drive Cleat T7 Forming Roll Drive Cleat T8 Forming Roll Drive Cleat T9 tom Forming Roll Drive Cleat B1 tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 1 1 1 1 3 3 3	58512 51041 51900 53304 60047 60052 60090 60097	Stand Cover Fiber Gear Assembly Exit Gauge ("S" Cleat) 5/16-18 x 3/4 HHCS 5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS 3/8-16 x 3/4 HHCS	1 1 1 1 1 5 1 4
Forming Roll Drive Cleat T7 Forming Roll Drive Cleat T8 Forming Roll Drive Cleat T9 tom Forming Roll Drive Cleat B1 tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 1 1 1 1 3 3	51041 51900 53304 60047 60052 60090 60097	Cover Fiber Gear Assembly Exit Gauge ("S" Cleat) 5/16-18 x 3/4 HHCS 5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS 3/8-16 x 1.3/4 HHCS	5 1 4
Forming Roll Drive Cleat T8 Forming Roll Drive Cleat T9 tom Forming Roll Drive Cleat B1 tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 1 1 1 3 3	51900 53304 60047 60052 60090 60097	Fiber Gear Assembly Exit Gauge ("S" Cleat) 5/16-18 x 3/4 HHCS 5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS 3/8-16 x 1.3/4 HHCS	5 1 4
tom Forming Roll Drive Cleat B1 tom Forming Roll Drive Cleat B1 tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 3 3	53304 60047 60052 60090 60097	Exit Gauge ("S" Cleat) 5/16-18 x 3/4 HHCS 5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS	5 1 4
tom Forming Roll Drive Cleat B1 tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 3 3	60047 60052 60090 60097	5/16-18 x 3/4 HHCS 5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS	5 1 4
tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 3 3	60052 60090 60097	5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS 3/8-16 y 1.3/4 HHCS	1 4
tom Forming Roll Drive Cleat B2 tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 3 3	60052 60090 60097	5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS 3/8-16 y 1.3/4 HHCS	1 4
tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	1 1 3 3	60052 60090 60097	5/16-18 x 1 HHCS 3/8-16 x 3/4 HHCS 3/8-16 y 1.3/4 HHCS	1 4
tom Forming Roll Drive Cleat B3 tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9	3	60090 60097	3/8-16 x 3/4 HHCS	4
tom Forming Roll Drive Cleat B4, B5 & B6 tom Forming Roll Drive Cleat B7, B8 & B9 I Shafts	3	60097	3/8-16 v 1-3/4 HHCS	
tom Forming Roll Drive Cleat B7, B8 & B9 I Shafts	3		0/0 10 × 1 0/ 1111100	
	18		3/8-16 x 2 HHCS	2
	1 18			
urive Shart		60164	1/2-13 x 5 HHCS	21
D-: Ot - 4	. 1	60166	1/2-13 x 3-1/2 HHCS	4
Drive Shaft	1	60228		29
Drive Shaft	1	60302	1/4-20 x 5/8 SHCS	10
n Spacer "S" Cleat 1-1/4" x 5-1/64"	17	60450	1/2-13 x 1 SHCS	1
r Spacer		60551	1/4-20 x 1/2 RHMS	5
n Idler Spacer	1	60575	10-24 x 3/8 RHMS	4
n Spacer Drive Cleat 1-1/4"x 2-21/32"	21	60593	10-32 x 7/16 FHMS	2
n Spacer Drive Cleat 1-1/2" x 3/8"				2
Spacer Drive Cleat 1-3/8" x 17/32"	4	60795	4 x 3/16 Drive Screws TP-U	8
	10	60875	3/8-16 v 1 CB	
				4
	1 1			4
				4
		60954	1/2-13 x 1 FH Screws	8
경우곡이무절생님 열 왕				
	2	60994	Screw	1
	1	61040	10-24 Hex Nut	4
Plate	9	61101	5/16-18 Hex Nut Heavy SF	1
tom Front Plate	1	61120	3/8-16 Hex Nut Heavy SF	14
tom Center Plate		61122	3/8-16 Hex Nut Fin	26
	1 2 2 5	64400	1/0 (0 U N)	
	122-	61160	1/2-13 Hex Nut Heavy SF	6
	3 2 2 3	4	36	
	10,00			
	999			
	in Spacer Drive Cleat 1-1/2" x 3/8" I Spacer Drive Cleat 1-3/8" x 17/32" 2/keyway ven Gear Ir Gear (Needs 1-66090 Bearing) In Idler Gear (Needs 2-66100 Bearings) Iven Gear Main Itar ust Collar Is Spacer Lube I Plate Itom Front Plate Itom Center Plate	Spacer Drive Cleat 1-3/8" x 17/32" 4 2/keyway	Spacer Drive Cleat 1-3/8" x 17/32" 4 60795 2/keyway	Spacer Drive Cleat 1-3/8" x 17/32" 4 60795 4 x 3/16 Drive Screws TP-U



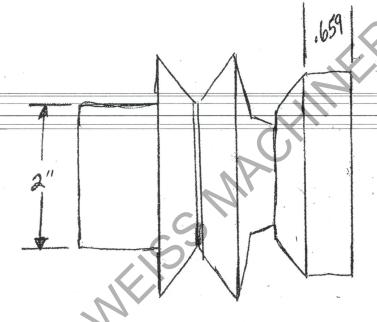
Parts List

New art No.	Description	Pcs. Per Unit	New Part No.	Description	Pcs Per Uni
61300	3/8-16 Jam Nut SF	18	Sept a		
62026	3/8 x .052 Washers	4	Thea 2		
62027	3/8 x .082 Washers	18	U 4.8 91		
62029	3/8 x 1/16 Washer	50			
62123	1 x .020 Washer	36			
02123	1 x .uzu wasilei	30			
62340	3/8 Spring Washer	216			
62363	3/8 Lock Washer	12			
62364	1/2 Lock Washer	43			
62402	15 Woodruff Key	57			
62518	5160-98 Retaining Ring	18			
62551	3/8-16 x 6-1/2 Stud Hold Down	18			
	3/8 x 1 Dowel	12	TV al.		
62633 66090	Bearing (B1416 Torr)	7			
66100	Bearing (B1416 Forr) Bearing (B1612) Torr)	56			
66111	Bearing (B1612) Torr) Bearing (HJ 162412 Torr)	6	The state of the s		
00111	Deaning (113 102412 1011)	0	Transaction A	The Common No.	
66320	Bearing (NTA 1625 Torr)	2	120		
66321	Bearing (TRC 1625 Race)	2			
66422	Bearing (TT1503-2 Thrust)	7			
66425	Bearing (TT1709-1 Thrust)	78			
66600	Connector (886L Female Coupling)	7			
66610	Half Union (888L)	7			
66640	1610 Grease Fittings	8	1 25		
66650	Angle Body	1	100		
66700	Plastic Tubes 4 pcs14" & 3 pcs18"	110"			
70052	V Belt 5L480	2			
70404	Change 201/22 v. 1	1			
70421	Sheave 2BK32 x 1				
70442	Sheave 2BK45 x 1-1/8	+ :			
80080	5 HP 3 Phase 60 Cycle 1800 RPM (184)	1			
80103	Motor Control (609 Bow)	1			
80423	BX. Cable 12-3 x 58"	1	1 100		
80483	BX. Connector 3/8	1			81 1888
80484	BX. Connector 3/4	1			
80601	Ring TNG Terminal	3			1 6 3
80928	Back Enclosure	1			dila El
82254	W54 Heaters	3			1310 11
02234	w34 heaters	3	The same		13 2 31
05470		1			18 日子
85178	Lockformer Logo		1 18 5		18 9 2
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11145 (OLD)



11312 (New)

Here is the roll arrangement now:

STA. 1 - 11141

STA. 2 - 11142

STA. 3 - 11143

STA. 4 - 11144

STA. 5 - 11312

STA. 6 - 11260

STA. 7 - 11146 (formerly at sta. 6)

STA. 8 - 11313

STA. 9 - 11314

H. WEISS MACHINERY & SUPPLY