PHONE: (718) 605-0395

Operator's manual 20 Gauge Super-Speed



NMME LOCKFORMER

Installation

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

Standard electrical installation requires a 115 volt grounded power supply. Provide a 115 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.

Operating Instructions

BASIC OPERATION

Hold the stock against the entrance gauge and slide it into the forming head. Be sure that the stock remains against the gauge until the trail edge of stock is engaged in the rolls.

Note: Minimum part length is 7 inches. If a shorter piece is needed, run a long piece, then notch and cut it to size.

Make hold down adjustments, as outlined below, to accommodate slight variations in metal thickness and hardness.

HOLD DOWN ADJUSTMENT PROCEDURE

- 1. DISCONNECT POWER!
- 2. Install lock outs to prevent accidental start up.
- 3. Remove top cover.
- 4. Tighten the hold down bolts until snug, then loosen them 3/4 turn. This setting should give good results for all stock thicknesses.
- 5. INSTALL THE COVER, remove lock outs, restore power.
- 6. Run a test piece.

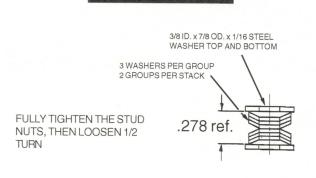
 If the stock slips in the rolls, tighten the hold down bolts equally in small increments until the desired results are obtained.

 If the stock curls up after forming or shows extremely heavy pressure marks, loosen the hold down bolts slightly.
- 7. Machine is now ready for production.

Do not adjust hold downs unless the stock slips in the rolls, pulls away from the entrance gauge, or curls when exiting the rolls.

BELLEVILLE SPRING WASHERS

3/8" HOLD-DOWN STUDS



5/8" HOLD-DOWN BOLTS

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5/8 ID. x 1-1/2 OD. x 3/16
STEEL WASHER ON TOP

2 WASHERS PER GROUP
4 GROUPS PER STACK

.616 ref.

FULLY TIGHTEN THE
HOLD DOWN BOLTS,
THEN LOOSEN 3/4 TURN

SADDLE
WASHER

H. WEISS MACHINERY & SUPPLY

PITTSBURGH LOCK

HAMMER-OVER LEG ADJUSTMENT



The width of the Pittsburgh lock hammer over leg is adjustable. Move *only* the right hand entrance gauge in to produce a wider leg and out for a narrower leg. ALWAYS move both ends of the entrance gauge equally, keeping it parallel to the top machine plates.

Never move the exit gauge bar for this roll set. This gauge is not intended to contact the material under normal circumstances.

STRAIGHT EDGE MACHINE PLATE | STRAIGHT EDGE | MACHINE PLATE | STRAIGHT EDGE | STRAIGHT

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OPENING ROLL

CAUTION

The flat roll mounted horizontally after the last roll station maintains the opening of the gap in the Pittsburgh lock. If burrs or twists caused by snips are present on the stock, they should be flattened. Failure to do this can result in breakage of the opening roll

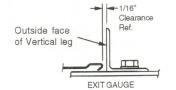
INSTALLATION and OPERATION OF AUXILIARY ROLLS

NOTE: Standard auxiliary rolls are interchangeable between the standard Lockformer 20 and the Super-Speed models. Since different entrance gauges are required, the model for which the rolls are intended should be specified

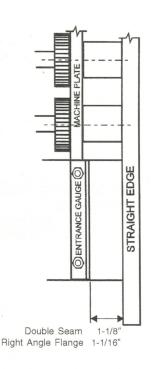
DOUBLE SEAM

DOUBLE SEAM or STRAIGHT RIGHT ANGLE FLANGE ROLLS

- 1. DISCONNECT POWER
- 2. Install lock outs to prevent accidental start up.
- 3. Remove the cover.
- 4. Unscrew and remove the right hand side table top section. This will expose the auxiliary shafts on which the rolls will be mounted.
- 5. Select the first pair of rolls which are marked T1 (Top roll first station) and B1 (Bottom roll first station). Slide them as a mated pair onto the shafts. All information stamped on the rolls must face outward. Slide a key into each keyseat. Follow this procedure in sequence with each remaining pair of rolls.
- 6. Fasten the rolls onto the shafts with the screws and washers provided.
- 7. Mount the entrance gauge and set it to the dimensions shown in the illustration.
- 8. Mount the exit gauge so the outside face of the vertical leg is parallel to the part as it passes over the exit table. Set to allow approximately 1/16" clearance between the part and the exit gauge.
- 9. Replace the table top.
- 10. INSTALL THE COVER.
- 11. Remove the lock outs.
- 12. Restore power to the machine.



RIGHT ANGLE FLANGE

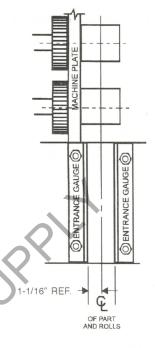


H. WEISS MACHINERY & SUPPLY

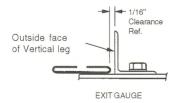
DRIVE CLEAT ROLLS

- 1. DISCONNECT POWER.
- 2. Install lock outs to prevent accidental start up.
- 3. Remove the cover.
- 4. Unscrew and remove the right hand side table top section. This will expose the auxiliary shafts on which the rolls will be mounted.
- 5. Select the first pair of rolls which are marked T1 (Top roll first station) and B1 (Bottom roll first station). Slide them as a mated pair onto the shafts. All information stamped on the rolls must face outward. Slide a key into each key seat. Follow this procedure in sequence with each remaining pair of rolls.
- 6. Fasten all rolls except the top number 2 onto the shafts with the screws and washers provided. Do not insert a mounting screw into the top 2 rollshaft; this allows the roll to "float" laterally, and center itself to the bottom roll as the stock passes through.
- 7. Mount the entrance gauges so that the centerline of the stock aligns with the centerline of the rolls.
- 8. Tighten the stud nuts so that the **T5** and **B5** rolls do not separate as the drive cleat passes through.
- 9. Mount the exit gauge so the outside face of the vertical leg is parallel to the part as it passes over the exit table. Set to allow approximately 1/16" clearance between the part and the exit gauge.
- 10. Replace the table top.
- 11. INSTALL THE COVER.
- 12. Remove the lock outs.
- 13. Restore power to the machine.

IMPORTANT: BE SURE TO CUT STOCK EXACTLY 2-1/8 INCHES WIDE TO INSURE AN ACCURATELY FORMED CLEAT.



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MAINTENANCE

LUBRICATION

Six grease fittings are located on the side panel of the stand. Lubricate these fittings after every eight hours of operation. The recommended lubricant is Molub-Alloy 777-1 or equivalent. Apply grease to all drive gears after every 40 hours of operation.

If the machine is to be used in a damp environment, apply a film of oil or grease to all unpainted metal surfaces to prevent rust.

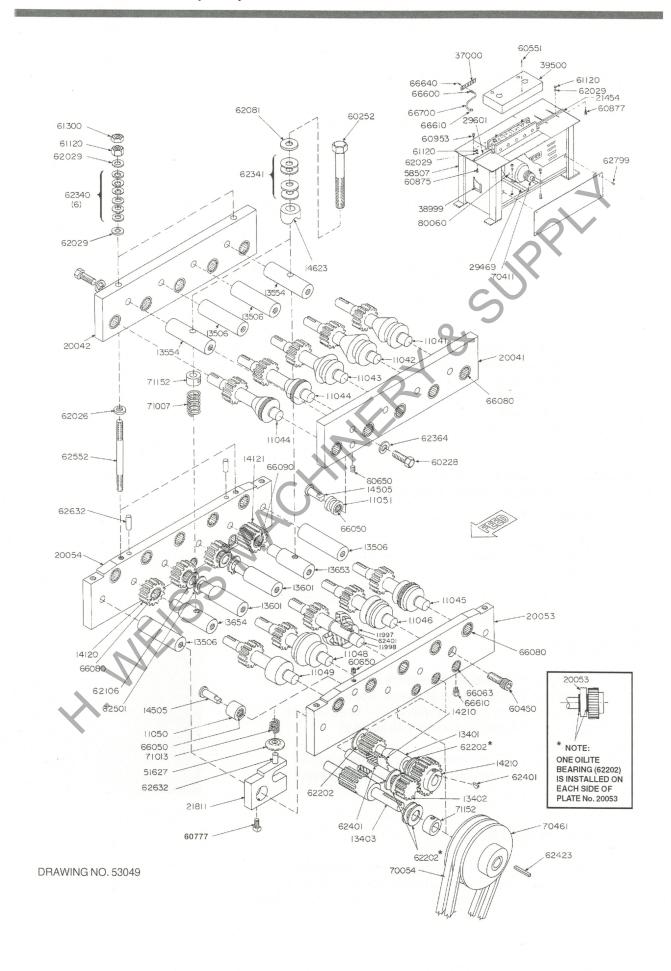
GREASE

CLEANING THE ROLLS

Keeping the roller dies clean is an important step toward efficient operation of your machine. Lockformer's GALV-OFF aerosol spray cleaner, will soften galvanized build up so that it flakes off by itself. Daily use is recommended to prevent harmful deposits from building up. GALV-OFF cleans and lubricates, as well as protects the forming rolls.

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20 Super Speed Illustrated Parts Breakdown



20 Super Speed Parts List

NEW PART NUMBER	OLD PART NUMBER	DESCRIPTION	QUANTITY
20053	2101-A	Lower Plate (Left)	1
20054	2101-B	Lower Plate (Right)	1
20041	2102-A	Upper Plate (Left)	1
20042	2102-B	Upper Plate (Right)	1
11045	2103	Bottom 1 Forming Roll	1
11046	2104	Bottom 2 Forming Roll	1
11997, 11998	2105	Bottom 3 Forming Roll	1
11048	2106	Bottom 4 Forming Roll	1
11049	2107	Bottom 5 Forming Roll	1
11041	2108	Top 1 Forming Roll	1
11042	2109	Top 2 Forming Roll	1
11043	2110	Top 3 Forming Roll	1
11044	2111	Top 4 Forming Roll	1
11044	2112	Top 5 Forming Roll	1
11050	2113	Lower Idler Roll	
11051	2114	Upper Idler Roll	
13554	2115	Plain Spacer Drilled	2
13654	2116	Step Spacer Tapped	l S
13601	2117	Step Spacer	1
62501	2117	Retaining Ring	2
13506	2118	Plain Spacer	4
14210	2119	3 inch Gear With Hub 28 teeth	2
51627	2120	Opening Roll	1
14505	2121	Idler Roll Pins	2
9952500	2122	Opening Roll Holder	1
66080	2123	Bearing 7/8" ID x 3/4" Long	23
66063	2124	Bearing 3/4" ID x 3/4" Long	6
13401	2125	Third Drive Shaft	1
13402	2126	Second Drive Shaft	1
13403	2127	First Drive Shaft	1
66050	2128	Bearing 5/8" ID x 3/4" Long	2
70054	2130	V-Belt (B size Browing No. 5L48)	2
29601	2131	Exit Angle Gauge	1
70461	2132	Machine Pulley (Double Groove)	1
62401	2135	Woodruff Key No. 9	3
60650	2136	Hex Head Set Screw 5/16 x 5/16	2
14623	2137	Locking Collar	2
60953	2138	Flat Head Cap Screw	4
62081	2139	Steel Washer for Part No. 2144	4
62364	2140	Washer	19
60875	2141	Carriage Bolt 3/8 x 1 for Ent. Gauge	2
37000		Lube Bracket	2

NEW PART NUMBER	OLD PART NUMBER	DESCRIPTION	QUANTITY
71152	2142	3/4" Collar	3
60450	2143	1/2 - 13 x 1" S.H.C. Screw	1
60252	2144	Hold Down Stud 5/8 x 6	2
66600	2145	Connector (Lubrication)	6
66610	2146	Half Union (Lubrication)	6
62552	2147	Hold Down Stud 3/8 x 4-3/4	2
14120	2149	Idler Gear (66080 Bearing)	3
62341	2150	Spring Washer 1-1/2" O.D.	8
62340	2150	Spring Washer 3/4" O.D.	12
58507	2152	Stand Assembly	1
39500	2153	Forming Head Cover	1
60777	2154	Set Screw 3/8 x 3/4"	1
62026	2155	Spacer Washer 3/8"	2
21454	2156	Entrance Gauge Bar	2
66700	2157	Plastic Tubing 11" Lg.	3
66700	2158	Plastic Tubing 16" Lg.	3
80060	2161	Motor 2 H.P.	1
62633	2162	Dowel Pin	1 2
			+
62029	2163	Steel Washer 3/8"	14
61120	2164	Hex Nut 3/8"	6
61300	2165	Hex Jam Nut 3/8"	2
60750	2166	Square Head Set Screw 1/4 x 1/2	6
66640	2167	Grease Fitting (Alemite)	2
60877	2168	Carriage Bolt 3/8 x 1-3/4	2
80923		Starter 609AOW	1
80928		Enclosure Back	1
21811	2122-A	Opening Roll Holder	1
62632 71013	2122-B 2122-C	Dowel Pin Spring	1 1
13653	2122-0	Spacer Main Idler	1
14121		Main Idler Gear (66090 Bearing)	1
60228	2140-A	Hex Head Screw 1/2 - 13 x 1-3/4	19
62423		Straight Key	1
71007		Compression Spring	1
66090		Main Idler Bearing	1
66610		Half Union	6
29469	-	Motor Base	2
70411		Sheave 2BK28	1 1
82247 60551		Heater W-47 Round Head Screw 1/4-20 x 1/2	9
62706		Washer	2
62202		Oilite Thrust Bearing	7

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