SUPER SPEED **CLEATFORMER®**

MODEL No. 8900

OPERATING INSTRUCTIONS



U # --

LOCKFORMER

Where the Machines of Tomorrow are Made Todaysm

PHONE: (718) 605-0395

ELECTRICALS:

5 HP 220/440 volt three phase motor and controls, standard machine wired for 220 volt unless otherwise indicated.

MACHINE SPECIFICATIONS:

"S" CLEAT:

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

OPERATION:

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

Check end results and make changes accordingly.

ADJUSTMENTS:

Should the machine labor under load, the hold down studs are set too tight. To readjust, tighten the four studs that pass through the machine plates and then loosen approximately one quarter turn (90°) .

Should machine continue to labor, loosen the two studs on the lead end of the machine to three-eights (135°), or one-half turn (180°) loose. 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 #G8904 and C-8905) are supplied with one polished angle surface 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 outof-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:

- 1. Remove machine cover.
- Remove rear section of table top side plate on side of machines rolls are to be mounted.
- 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 Woodruff 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 OUTWARDS.

- 6. After rolls are installed, fasten rolls with retaining cap screws and washers.
- 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 Sketches #1, #6 & #6A using drive cleat rolls, mount second bar after gauge setting has been made. See schedule below for various auxiliary sets.



Auxiliary Roll Gauge Settings:

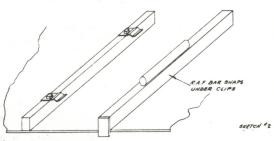
Type "S" double seam (22 gauge and lighter) uses approximately 1" material.

Gauge Setting 1-1/8"

B. Type "L" double seam (18 to 22 gauge galvanize) 7/16" pocket uses approximately 1-1/8" of material.

Gauge Setting. 1-5/16"

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 mounted to stand with clips attached 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 below:



The top #8 and #9 rolls are not fastened by bolt 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 below: Set exit gauge to the standing seam shape.



SKETCHAS

D. Right angle flange rolls (16-24 gauge galvanize) on straight pieces only. Adjustable to 7/16" high.

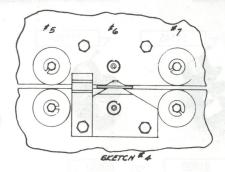
Gauge Setting 1-5/16"

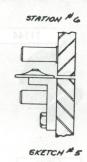
E. 5/16" Auxiliary Pittsburgh (20 gauge and lighter) uses approximately 1"material.

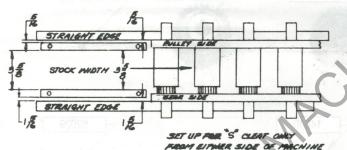
Gauge Setting1-11/16"/1-3/4"

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 NC x 2" HHCS provided.





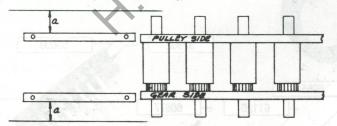


SKETCH & 6

F. Drive Cleat: (20 gauge and lighter) used 2-1/8" material.

Gauge Setting 2-1/8"

NOTE: Use gauge bar stamped DC (15/16" wide) as center bar for 'S' cleat and drive cleat. Set outside gauge bar to width of material being used. (See Sketch #6).



(a- a) SEE ROLL SET TO BE USED

SKETCH & A

G. Combination 3-in-l rolls (capacity 22 gauge and lighter), also 2-in-l, uses approximately 1-3/4" on "T" section, 1-1/8" on standing seam and 1/2" on right angle flange. Standard installation places rolls on pulley side of machine. Gear side mounting may be available on request.

Gauge Settings - 3-in-l Gauge Bar:

Top Step "T" section.... 2-1/16" Middle Step standing seam.. 1-1/2" Bottom Step right angle flange 15/16"

Gauge Settings - Combination 2-in-1"

Top Step "T" section 2-1/16"
Bottom Step standing seam . . 1-1/2"

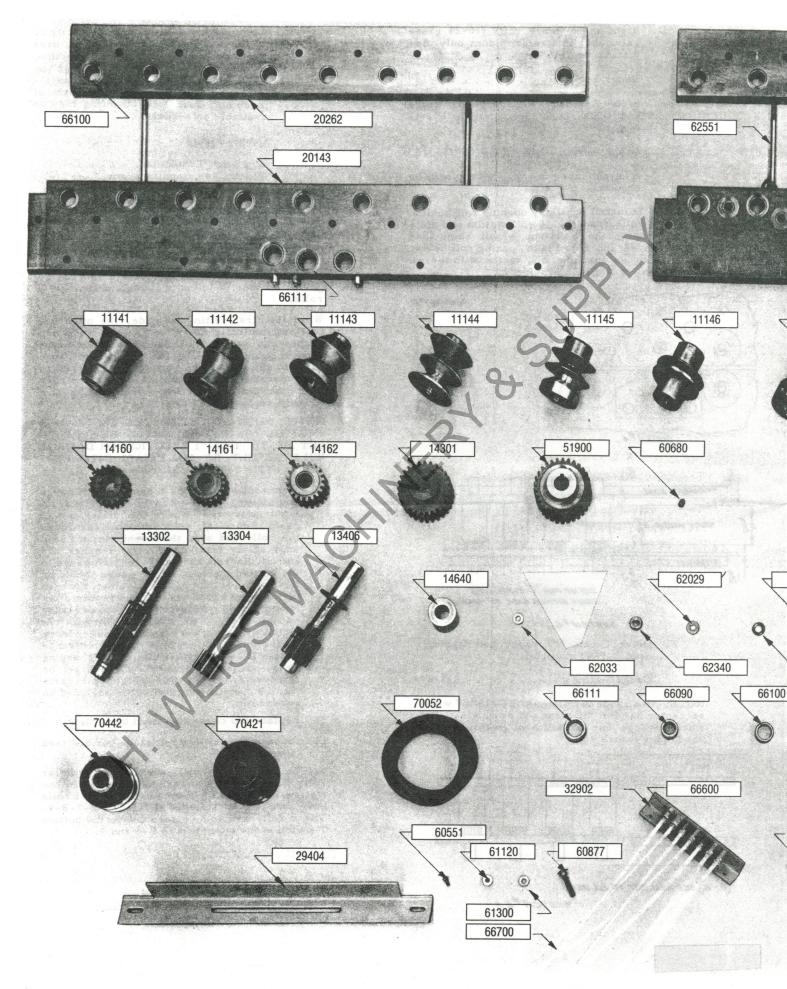
NOTE: The combination gauge acts as a center guide for the "S" clear and combination 3-in-l rolls.

When the first setting is made, the other two will automatically be correct. The other two shapes can be made by placing material to the proper gauge step. The exit angle iron gauge 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.

NOTE: WHEN ADJUSTING THE EXIT GAUGE FOR THE 3-in-1 COMBINATION, BE SURE TO SET IT TO THE "T" SECTION OR DAMAGE WILL RESULT BY MATERIAL INTERFERENCE WITH THE GAUGE BAR.

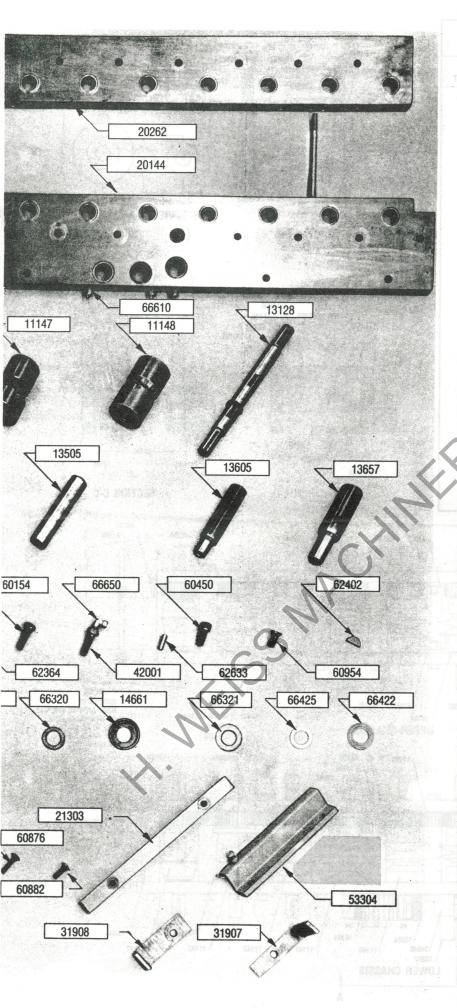
- When changing rolls, loosen the exit gauge and move it to the extreme ends of the table slots away from where the material will pass. Run a test piece of material through the rolls and stop the machine as the lead edge of the formed material reaches the end of the exit table. Set the exit gauge to 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 to 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.
- 10. Replace top cover and stand back plate.
- 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.



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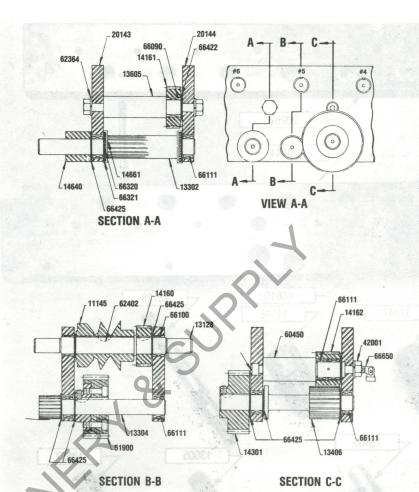
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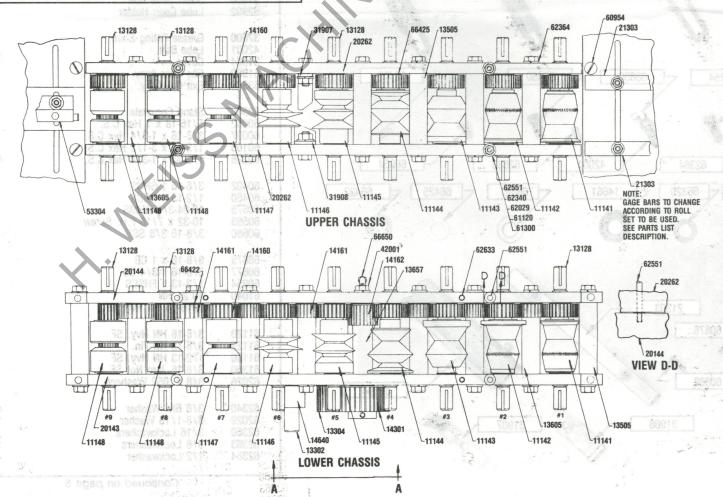
8900 CLEATFORMER PARTS LIST		
PART NO.	DESCRIPTION	PCS. PER UNIT
11141 11142 11143 11144 11144	89 T-B1 89 T-B2 89 T-B3 89 T-B3 89 T-B4 89 T-B4 89 T-B5	S0458 2 18888 2 18888 2 19888 2 19888 2
11146 11147 11148 13128 13302	89 T-B6 89 T-B7 89 T-B8, T-B9 Roll Shaft 1st Drive Shaft	2 2 2 4 33 8 18
13304 13406 13505 13605 13657	2nd Drive Shaft 3rd Drive Shaft Plain Spacer Idler Spacer Main Idler Spacer	00838 1 01888 13 04888 7 00088 1
14160 14161 14162 14301 14640	Drive Gear Idler Gear (takes 1-66090) Main Idler Gear (takes 2-66100) Drive Gear Collar	S2000 18 7 7 15M07 1 5M407 1 08008 1
14661 20143 20144 20262 21303	Thrust Collar Btm. Frt. Plt. Btm. Plt. Upr. Bk. Plt. Ent. Ga. Bar	2 1 1 2 2
25676 29469 31907 31908 32902	Jack Base Motor Base Sheet Slide Gear Sheet Slide Roll Lube Conn Holder	2 2 1 1 1
37000 42001 51084 51900 53304	Grease Fitting Shim Lube Bolt Cover Fibr Gear Assy Exit Ga. Assy.	2 1 1 1
58509 60052 60097 60166 60228	Stand Complete 5/16-18 x 1 Hex C.S. 3/8-16 x 1-3/4 Hex C.S. 1/2-13 x 3-1/2 Hex C.S. 1/2-13 x 1-3/4 Hex C.S.	1 1 4 2 42
60402 60450 60575 60593 60680	3/8-16 1 SHCS 1/2-13 1 SHCS 10-24-3/8 RHMS 10-32 x 7/16 F.H. Screw 3/8-16 3/8 SSS	2 1 4 2 2
60875 60877 60954 61040 61101	3/8-16 x 1 CB 3/8-16 1-3/4 CB 1/2-13 1 FHSCS 10 24 HN 5/16-18 HN Hvy. SF	6 4 4 1
61120 61122 61160 61300 62026	3/8-16 HN Hvy. SF 3/8-16 HN Fin. 1/2-13 HN Hvy. SF 3/8-16 Jam Nut SF 3/8 x .052 Washers	6 4 6 4
62340 62029 62360 62363 62364	3/8 Blvl Washer 3/8-1/16 Washer 3/16 Lockwashers 3/8 Lockwashers 1/2 Lockwasher	48 18 3 12 43

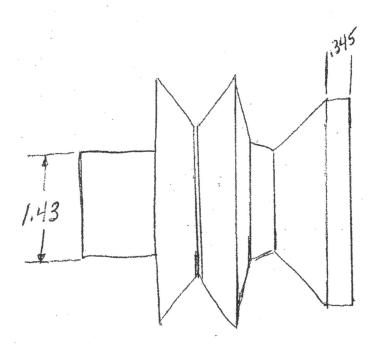
Continued on page 6

8900 CLEATFORMER PARTS LIST Continued from page 5 PCS. DESCRIPTION PART NO. **PER UNIT** 15 wdrd Key 3/8-16 6-1/2 Stud 3/8-1 Dwl B1416 Torr Brg. B1612 Torr Brg. HJ 162412 Torr Brg. 88-T 98 NTA 1625 Torr Brg. 1-3/32 washer HT TT1503 2 Thrust Brg. TT1709 1 Thrust Brg. 886L Fem Couplg. 888L Half Union 1610 Grs. Fitting Angle Body **Tubing** 5L 480 Belt 2 BK 32 1 Shv. 2 BK 45 1-1/8 Shv. 5 HP 3 60 1800 184 Mtr. Control BX Cable 12 3 58 BX Conn. 3/8 Rg. Fng. Terminal 19 38 300 Back Enclosure Heater Element Lockformer Logo Cleatformer Name Plate

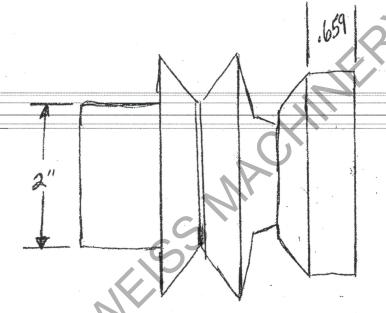


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11145 (OLD)



1/3/2 (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

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