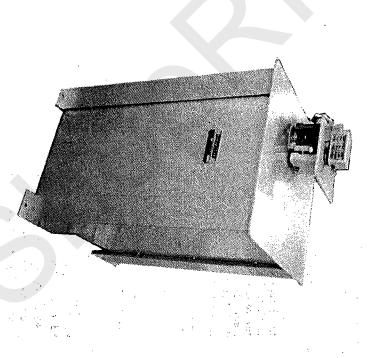
JOCKFORMER

SNAP LOCK FLANGER

FOR 20 TO 28 GAUGE MATERIAL



THE LOCKFORMER COMPANY
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FOR LOCKFORME BUTTON PUNCH **NSTRUCTIONS** FLANGER

Capacity: 20 to 28 Gauge Galvanize

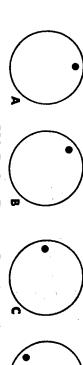
materials, it was necessary to form the metal in two stages. To satisfactorily form the 90° button punch flange on light gauge

Stage #1: To form the flange to the necessary height and Stage #2: To introduce the button punch to the flange.

Operation Stage #1

(A) Adjust the Front Adjusting Screw (60983 on drawing) to See Sketch A) reference mark will be on top when the adjusting screw mark is located on the end of the screw for reference. The the gauge material to be flanged. Note: An indicator punch To adjust tighten screw by hand.

Loosen screw required amount for the material being formed



FRONT ADJUSTING SCREW SETTINGS

- *1/8 to 1/4 turn 26-28 Gauge "B" *1/4 to 3/8 turn 24 Gauge "C"
- *1/4 to 3/8 turn 24 Gauge 'C'
 *3/8 to 1/2 turn 22/20 Gauge 'D'
- *The above settings are approximate and will vary due to grades and type of galvanized sheets used. Practice and use will yield the exact setting for specific metals.

be set just tight enough to draw the metal through the rolls. Too tight of a setting will stretch and wrinkle the material or stall the machine. Important: Do not set front adjusting screw too tight. It should

B Adjust the Tension Screw (Hand Screw On Back Of Machine 14922). Tighten and loosen screw the required amount for material to be formed.

20 Gauge - 1 Turn Loose 22 Gauge - 1 Turn Loose 24 Gauge - 1% to 2 Turns Loose

3 Turns Loose

26 Gauge – 28 Gauge – Gauge - 31/4 Turns Loose

<u>G</u>

Turn Up A Starting Flange on the material before inserting it into the rolls. This is done by inserting the leading edge tant to turn up a FULL 3/8 Flange at the beginning since of the work to be flanged in the slot cut into the table and bending the piece away from the operator. It is most importhis controls the height and also since button will not punch if flange is not at proper height. Start the material into the rolls on the lower stage of the machine.

As the material passes through the rolls, the compensator arm will make contact with the material and guide it through the rolls. If the material pulls out of the rolls it is an indicatension screw is not tight enough. tion that either front adjusting screw is too loose or the back

adjusting screw (thumb screw in lower unit 60983) tight and carefully followed. To adjust tool for 28 gauge screw front galvanize. In running the lighter range of materials (26 to 28 gauge) it is most important that the back adjusting dial and incorrect height will result if these instructions are not front screw be at the proper settings. A wavy flange and an back of machine 14922) tight and loosen 314 turns. loosen 1/8 turn. important: Rated capacity of this machine is 20 to 28 Gauge Adjust the tension screw (hand screw on

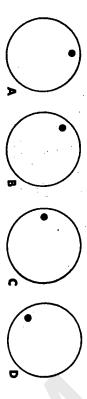
heavy knurl marking on the flanged edge of the material. Too much pressure will create a buckled flange showing a rolls and not be powered through the machine. sufficient pressure will cause the material to slip in the Proper adjustments will result with a smooth regular flange.

The buckled flange can also be caused by too much pressure being exerted by the pressure arm (40071). Consult settings on screws and adjust accordingly. A slight variance of the indicated readings may be required for various materials.

A buckled flange can be corrected by moving the compensator arm back to its lock out position. Then run flange through the rolls only. Do not apply any pressure to the material—but only support the piece as it goes through the machine. If the buckle is minor Stage Number 2 will remove it.

Operation Stage #2

Adjust the front adjusting screw (60983) on the upper stage same as for the lower stage.



UPPER ADJUSTING SCREW SETTINGS

1/8 to 1/4 turn from tight "B" 26-28 Gauge 1/4 to 3/8 turn from tight "C" 24 Gauge 3/8 to 1/2 turn from tight "D" 22/20 Gauge

Run material through the upper section for punching operation.

To eliminate galvanize accumulation on knurled forming roll, it may be necessary from time to time to apply either kerosene or a light machine oil to the knurled roll. This will aid in keeping the roll from an over-deposit galvanized material. If galvanized material packs into knurl recesses, it is desirable to clean this part with a scraping tool or wire brush and then oil.

When running materials, other than cold roll steel or galvanized, e.g. aluminum stainless or copper, a slight modification of the standard settings may be required to operate properly.

For Running: Aluminum, Copper (soft) Materials:

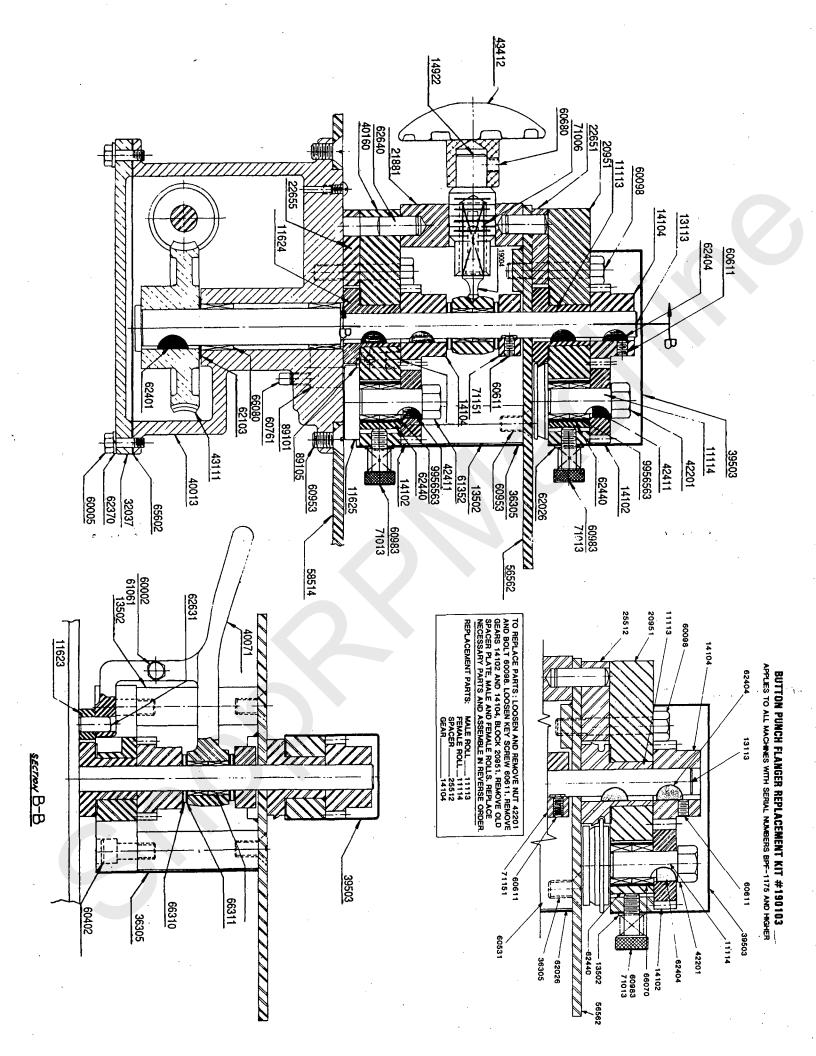
The above materials will require a looser setting on both the front gauge (thickness) setting and pressure setting (spring pressure). Experience or test settings will be required. Should material shear at the corner, the damage could be caused by excessive pressure or metal pick-up and "galling" on the lifter button.

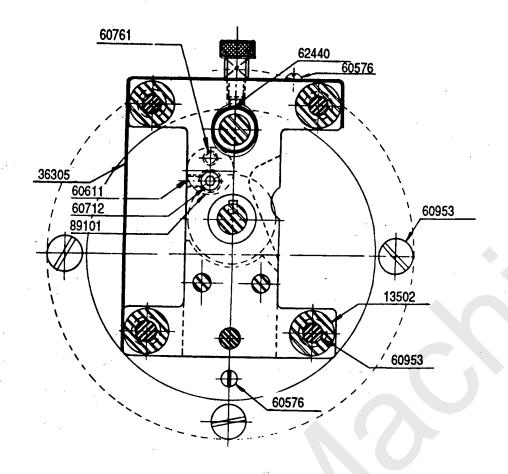
Where "galling" or metal pick-up is evident, the material will require lubrication to the part of the material being formed. Lubricants such as kerosene or a light machine oil should prove adequate.

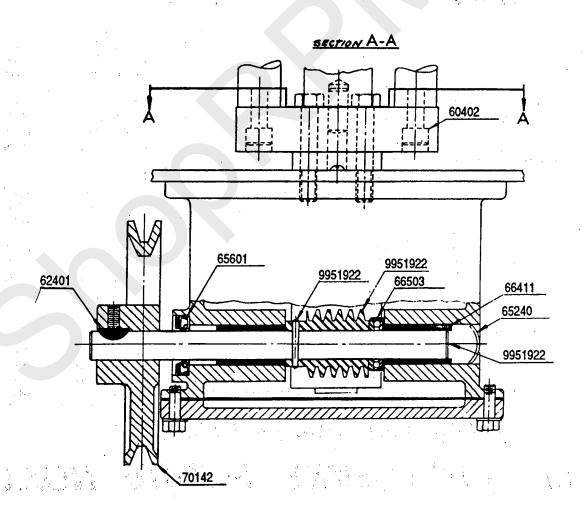
For Running: Stainless Steel or Hard Brass Materials:

Increased spring pressure may be required for running certain types of stainless. A standard thickness setting is adequate. A drawing compound may be necessary to eliminate pick-up. A special aluminum bronze lifter button may be necessary for prolonged use of stainless materials. (A special quotation would be required for this button.)

final closing of the final elbow. Do not crush snap lock with radius. A plus or minus factor will cause difficulty in the difficulty should be experienced. However, straight to curve section. be over formed slightly to allow easier insertion of the cheek made to conform to the cheeks. The radius of the body may It is very important that the body parts top and bottom be pinch rolls when forming arcs. Allow adequate clearance the body so that the arc will be formed to the tangent of the then with hand pressure diminish radius with several passes but not enough to affect snap. On small radius curves it is between front rolls to pass lock through. There will be a (inside or outside) to straight will require care when forming through slip rolls. better to control formed curve by running larger diameter and certain amount of closing when forming by back (3rd) roll Note: If cheeks are continuous arcs, very little







BUTTON PUNCH SNAP LOCK FLANGER

Parts List and Description

Part No.	Description	Pieces Per Unit	Part No.	Description	Pieces Per Uni
59022	Assembly Dwg.	1	89101	Lifter Button	1
40013	Gear Housing	1			
32037	Gear Housing Cover	1 .	11624	Plain Forming Roll	1
65602	Gear Housing Gasket	**	11625	Knurled Forming Roll	
		•	62404	Woodruff Key #61	4
	Hor. Drive Shaft	1	66311	Thrust Race	4
9951922	Worm Gear	1		•	
	Taper Pin	1	66310	Thrust Bearing	2
66503	Thrust Bearing	1	40071	Compensator Arm	ì
	• •		14102	Gear	2
66411	Bronze Bushing	2	56562	Flange Plate Weldment	1
65240	Freeze PLug	, 1			
65601	Oil Seal	1	13502	Vertical Spacer	4
13113	Vertical Drive Shaft	1	9956563	Inner Race Assembly	2
		*	21881	Tension Screw Support	1
62103	Worm Wheel Washer	1	62640	Pivot Dowel	2
43111	Drive Gear	1			
62401	Woodruff Key #9	2	20951	Top Flanger Block	1
66080	Housing Pin	2	40160	Bottom Flanger Block	i
	et a company of the c	$(x_1, \dots, x_n) = (x_1, \dots, x_n)$	71006	Spring	1
71151	Vertical Drive Shaft Collar		19004	Tension Spring Push Rod	1
22655	Lower Space Plate	· 1		1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	·
22651	Upper Space Plate	1			

Part No.	Description	Pieces Per Unit	Part No.	Description	Pieces Per Uni
62440	Race Support Key	2	58514	Stand	1
43412	Adjusting Handle	1	80030	Motor	1
11113	Button Punch-Male Roll	1	70140	Motor Sheave	· 1
11114	BUtotn Punch-Female Roll	1	70142	Machine Pulley	1
14104	Gear	2	70027	"V" Belt	1
11623	Adjusting Guide Roll	1	80481	BX Connectors	4
62631	Adjusting Guide Roll Shaft	1	80431	BX Cable	1
89105	Sensory	1	60875	Carriage Bolt - 3/8-16	4
60983	Head Screw	2	61120	Hex Nut - 3/8-16	4
71013	Spring	2	62029	Washer - 3/8	4
42411	Modified Woodruff Key #61	2	80204	Switch	1
14922	Tension Screw	1	80650	Handy Box	1 '
60576	Rd. Hd. Mach. Screw - #10-24	2	80675	Handy Box Cover	1
60611	Hol. Pt. Hol. Set Screw - 1/4-20	2	80525	Extension Cord	1
60680	Hol. Pt. Hol. Set Screw - 5/16-18	2	60048	5/16-18 x 1-1/4 H. H. Cap Screw	4
60761	Hol. Pt. Sq. Hd. Set Screw - 5/16-18	1	61101	5/16-18 HN. HVY. SF	4
61352	Hex Nut-Special - 1/2-20	1	62362	Washer - 5/16	8
60098	Hex Hd. Cap Screw - 3/8-16	4	60002	Hex Hd. Cap Screw - 1/4-20	1
60402	Soc. Hd. Cap Screw - 3/8-16	4	61061	Hex Jam Nut - 1/4-20	1 · '
60953	Fl. Hd. Mach. Screw - 3/8-16	8	60712	Cup Pt. Hol. Set Screw - 7/16-20	1
60005	Hex Hd. Cap Screw - 1/4-20	4	62026	Washer - 3/8	2
62370	Lock Washer - 1/4	4	42201	Hex Nut - Special	1
39503	Cover	1	•		
36305	Side Cover	1		*	