OFKFORKER

Button-Punch SNAP LOCK FLANGER

FOR 20 TO 28 GAUGE MATERIAL



THE LOCKFORMER COMPANY

Capacity: 20 to 28 Gauge Galvanize To satisfactorily form the 90° button punch flange on light gauge materials, it was necessary to form the metal in two stages. *ha flange to the necessary height and height and height to the flange. FOR LOCKFORMER **BUTTON PUNCH** INSTRUCTIONS PERATING

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

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

tight of a setting will stretch and wrinkle the material or stall be set just tight enough to draw the metal through the rolls. Too 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 134 to 2 Turns Loose
- 26 Gauge 3 Turns Loose
- 28 Gauge 31/4 Turns Loose

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

tion that either front adjusting screw is too loose or the back 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 As the material passes through the rolls, the compensator

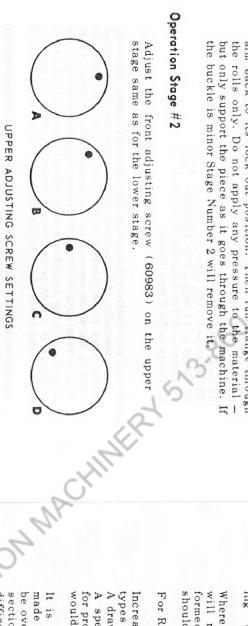
carefully followed. To adjust tool for 28 gauge screw front adjusting screw (thumb screw in lower unit 60983) tight and galvanize. In running the lighter range of materials (26 to 28 incorrect height will result if these instructions are not gauge) it is most important that the back adjusting dial and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

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

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

arm back to its lock out position. Then run flange through A buckled flange can be corrected by moving the compensator

Operation Stage #2



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

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

nized, e.g. aluminum stainless or copper, a slight modificaproperly. tion of the standard settings may be required to operate When running materials, other than cold roll steel or galva-

For Running: Aluminum, Copper (soft) Materials:

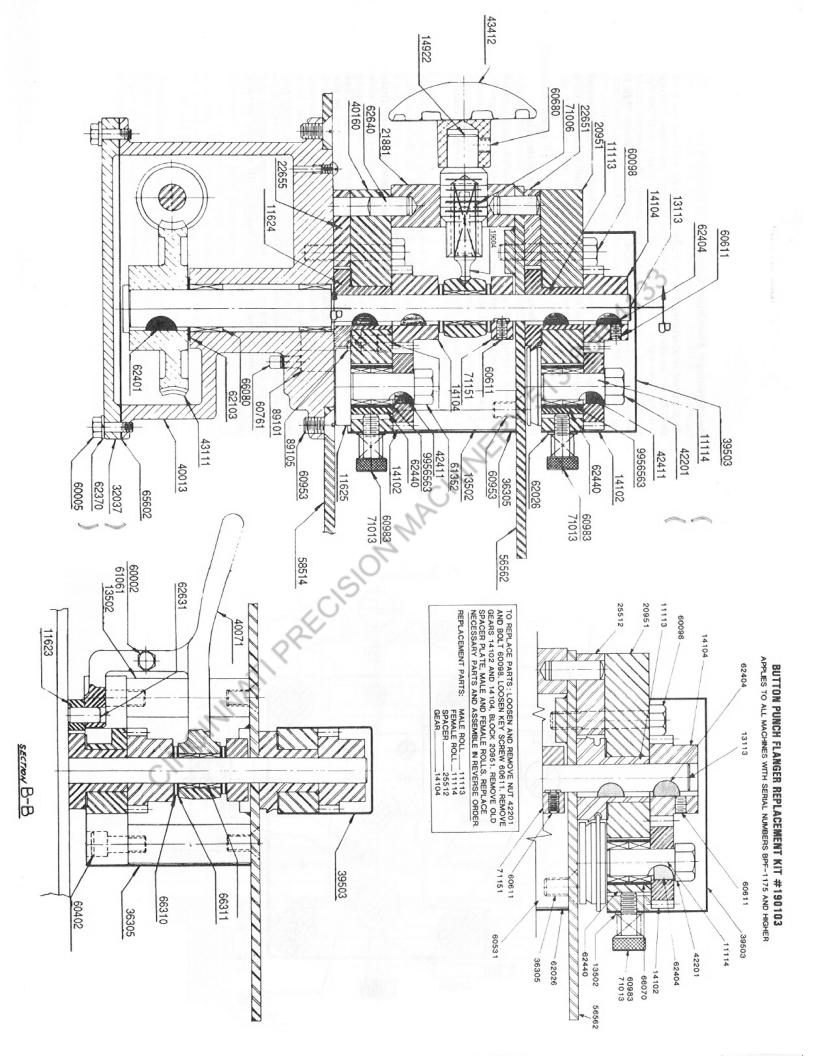
(spring pressure). Experience or test settings will be required. Should material shear at the corner, the damage could be caused by excessive pressure or metal pick-up and "gallthe front gauge (thickness) setting and pressure setting The above materials will require a looser setting on both ing" on the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

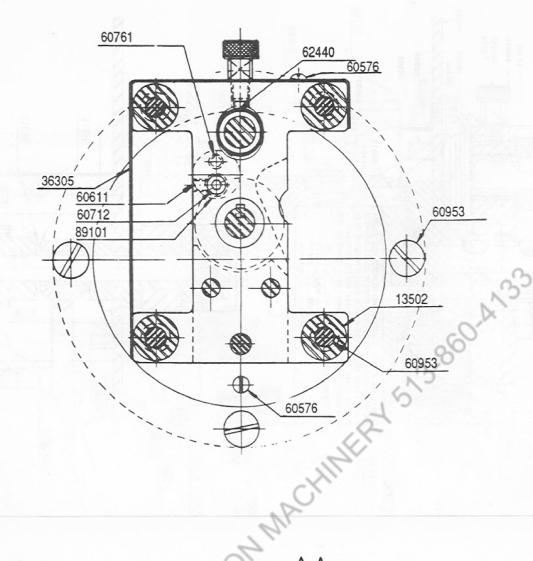
Where "galling" or metal pick-up is evident, the material will require lubrication to the part of the material being should prove adequate formed. Lubricants such as kerosene or a light machine oil

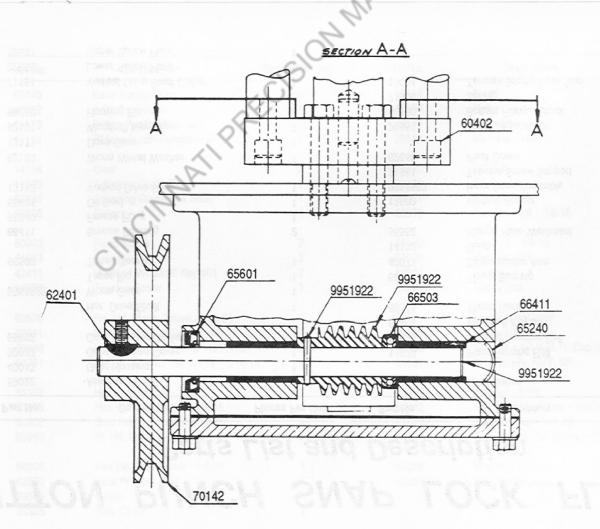
For Running: Stainless Steel or Hard Brass Materials:

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

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







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	1	11625	Knurled Forming Roll	1	
			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	1	
	100 PA		14102	Gear	2	
66411	Bronze Bushing	2	56562	Flange Plate Weldment	1	
65240	Freeze PLug	1		1/2		
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		1,0		
62401	Woodruff Key #9	2	20951	Top Flanger Block	1	
66080	Housing Pin	2	40160	Bottom Flanger Block	1	
			71006	Spring	1	
71151	Vertical Drive Shaft Collar	1	19004	Tension Spring Push Rod	1	
22655	Lower Space Plate	1		. •		
22651	Upper Space Plate	1	11/2			

Part No.	Description	Pieces Per Unit	Part No.	Description	Pieces Per Uni
62440	Race Support Key	2	58514	Stand	1
43412	Adjusting Handle	1 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 - 5/16-1	8 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			