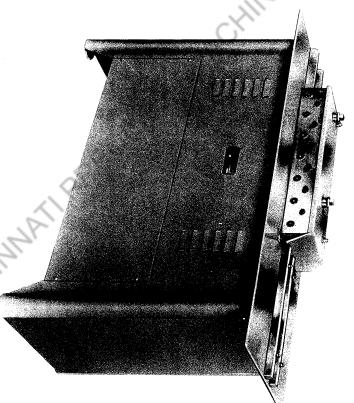
OCKFORMER

Where the Machines of Tomorrow are Made Todaysm 24547727272 Button Punch Snap Lock Machine

Instructions and Parts Diagrams

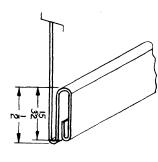


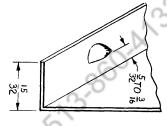
711 OGDEN AVENUE • LISLE, ILLINOIS 60532 THE LOCKFORMER COMPANY

711 OGDEN AVENUE • LISLE, ILLINOIS 60532 Where the Machines of Tomorrow are Made Today^s*

Snap Lock Machine **Button Punch**

For Square Duct





CAPACITY: 24 gauge and lighter.

MATERIAL REQUIREMENTS PER LOCK:

Receiver Lock, 1-1/8".
Button Flange, 7/16".

formed sections for calculation of sheet sizes. The above dimensions can be somewhat modified by varying the entrance gauge settings to suit the requirements of a specific project or material. Total amount of metal, 1-9/16''. This amount is to be added to

NOTE: The above machine, before being delivered to you, has been adjusted at the factory. A complete range of materials from 24 gauge through 30 guage has been run through this machine and it is ready for

RECEIVER LOCK ADJUSTMENT

(Inboard Roll Set):

that pass through the spacer bars. They are stamped (on top) No. 1 and No.2. (See Sketch #1). To adjust inboard rolls proceed as follows: The main adjustments affecting the receiver lock are two studs

Operating Instructions:

side of the sheet. with the same side up, run second lock on opposite terial flush against the gauge. Keeping the material sheet of material into either roll set holding the mavoltage and phase before starting machine. Feed Connect machine to proper electrical supply. Check

- 2E Loosen the 1/4'' lock screws on the two holddown studs. Tighten the two holddown studs(No. 1 and No. 2) until firm resistance is met.
- Loosen the No. 1 and No. 2 studs 1/8 to 1/4-turn.

screws and proceed with the operation of the machine Run a piece of material through the machine and check the results. If the setting proves satisfactory, tighten the two 1/4'' lock

BUTTON FLANGE ROLLS

(Auxiliary Rolls):

iliary side of the machine are the only points of adjustment for the button flange rolls. To adjust the auxiliary rolls proceed as follows: Tighten both studs, then loosen the studs 1/8 to 1/4-tum. If The two 3/8" studs that pass through the plates on the aux

the material shows stretch or excessive pressure, loosen studs

trolled in either the horizontal or vertical direction by increasing or decreasing the amount and number of shims. (See Sketch #2.) the pressure exerted at the 90° bend line. The pressure may be conand #7, which are located at assembly by means of spacers, control slightly until satisfactory shape is formed. The idler bracket located at roll stations (auxiliary side) #6

GAUGE SETTINGS:

Both entrance gauges located at front of machine may be checked or reset by placing a straight edge along the outer edge of the machine plate for the inboard rolls and along the outer edge of the rolls for the button flange. (See Sketch #1.)

PRESENT GAUGE SETTINGS:

2-15/16" measured from edge of gauge nearest the rolls.

2-31/32" to 3" measured from edge of gauge farthest from rolls. (As shown in Sketch #1.)

AUXILIARY BUTTON FLANGE:

15/16"measured from edge of gauge nearest the rolls.
31/32" measured from edge of gauge farthest from rolls.
The above gauge settings can be modified slightly to suit specific requirements.

TROUBLE CHECKS:

Due to the unusual physical characteristics of certain types of material, it may become necessary to reset the entrance gauge in its entirety. In the event that the material pulls away from the gauge or the lock is not formed properly, the gauge-taper can be increased — or the entire gauge setting may be increased or decreased slightly to achieve required results. Exit gauge bars are set to, but not against, the formed edge of material when emerging from the machine.

In running certain types of material, it may be necessary to add a slight lubricant to the edge of the sheet being formed to aid the flow of material into the finished lock. The above may be required if the 1/8" return hem does not form properly — if this hem is irregular in nature or tends to wave at edge of formed section — or entrance gauge adjustments do not correct or compensate for proper formation. This lubricant may be any light machine oil — applied either manually or by a felt wiper pad mounted on the machine.

To obtain the best lock, it will be necessary to insure that the material is in contact with the entrance starting gauge throughout the complete length of the sheet being formed. Certain materials, as well as hold-down adjustment, may have a tendency to allow the material to drift away from the gauge. When this occurs the lock will be improperly formed — and you may also lose the hem-return. The same condition may exist if the entrance gauge is not set correctly.

STRAIGHTNESS:

Upward or downward bow can be eliminated by raising or lowering the adjustable gauge bar on the exit end of the machine. (See Sketch #3.) Upward bow can be compensated by lowering the exit bar and putting pressure slightly on the formed lock. A downward bow shows too much pressure against material — raise bar slightly.

Should the auxiliary button flange shape bow downward, a thin shim can be placed onto the table top to apply slight pressure to the underside of the material thereby straightening the formed section.

Note: The #1 Roll Station punch position can be shimmed out away from the machine plates to locate the punch closer to the bend line there-

by achieving a tighter fit on the snap. See Warning note for proper roll positioning.

WARNING:

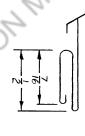
The gauge setting should not be made while #1 station is shimmed away from its normal location. The Top #1 roll is fastened to the shaft by a bolt and washer. The bottom roll is held to the shaft by a key placed into the rolls and is not restrained but held in place by a shoulder on Top #1 roll and should be allowed to float. The shim, if required, should be placed behind the top roll only.

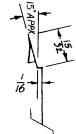
LUBRICATION:

There are seven Alemite fittings located on the underside of the stand. These fittings are for the high speed reduction bearings which should be lubricated after every four hours of operation. Lubricate gears periodically as required. Recommended lubricant: LUBRICANT STANDARD VISCOUS #3 (a product of the Standard Oil Co.) or equivalent.

ROUND PIPE AUXILIARY ROLLS:

Special offset button rolls can be obtained for fabricating round pipe. (See Sketch #4.)





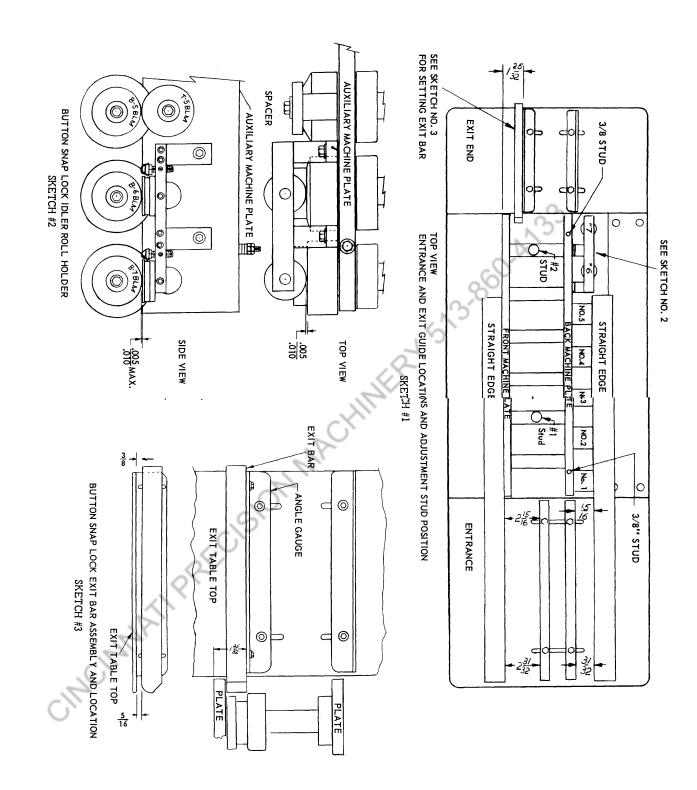
SKETCH #4

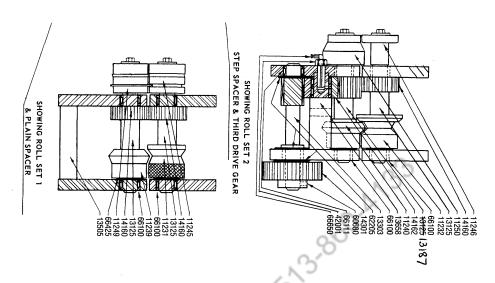
Installation Instructions for Round Pipe Auxiliary Rolls

e: The only rolls affected are the Auxiliary Rolls - Inboard Rolls remain as is.

- Remove machine cover and auxiliary roll table top side plate.
- (2) Remove auxiliary idler bracket at roll sets 6 and 7.
- 3) Remove roll sets 2 through 7.
- (4) Loosen exit angle iron and move in toward machine.(5) Place offset button lock rolls on roll stations 2 and
- Secure and replace table top side plate.

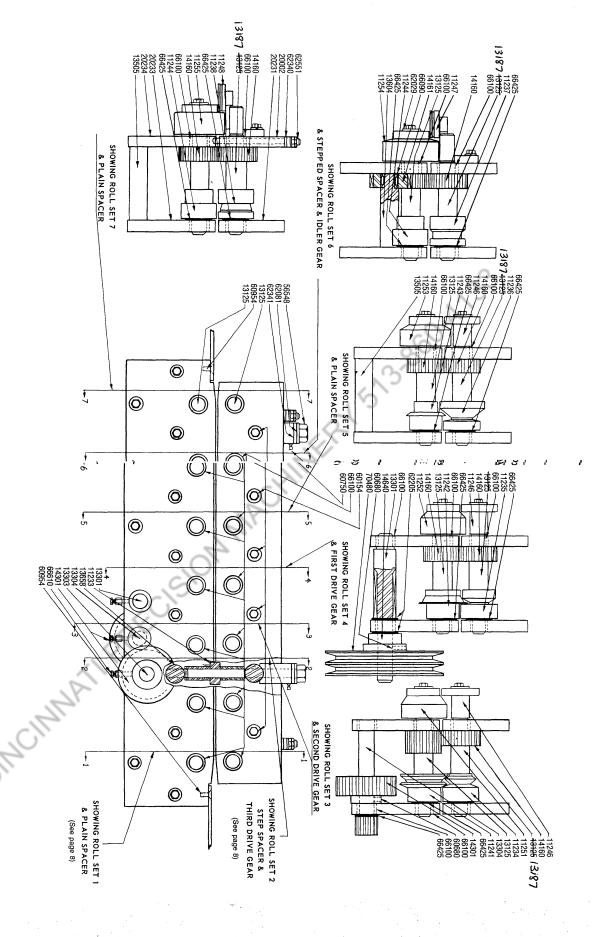
 (6) Roll material through machine and stop machine as lead end of material reaches end of table top.
- (7) Set exit angle iron to formed edge of material and proceed with production run.

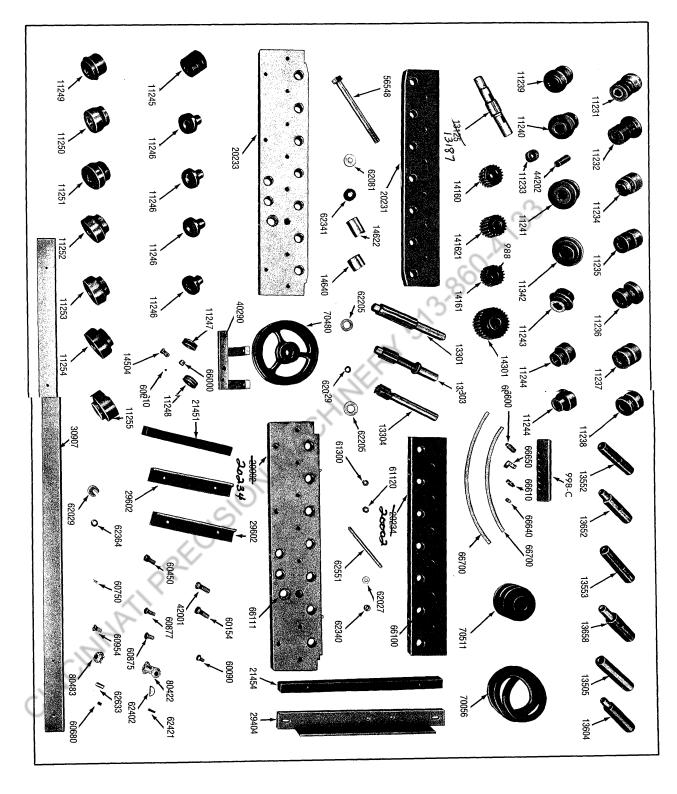




PARTS LIST AND DESCRIPTION

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Step Spacer Upper Front Plate Lower Front Plate Upper Back Plate Upper Back Plate Idler Pins Entrance Hold Down ON FEMALE ENT. BAC Lower Idler Roll B-812 Bearing B-815 Bearings TRH-815 Thrust 1/4"20 x 1/2" FHS 1/4"20 x 1/4" SSS Idler Roll BRKT	Idler Spacer 3/8 x 16 x 3/8 SSS 1/4-20 x 1/2 Sq. HSS TT1709-1 Thrust Bearing Roll Shaft Driven Gear Idler Gear Main Idler Gear Main Idler Gear A x 3/16 Drive Screw TPU Plain Spacer Drilled on center Step Spacer Drilled off center Plain Spacer Drilled off center Spacer Main Idler Plain Spacer Main Idler	BLF T-1 Forming Roll BLF T-2 Forming Roll BLF T-2 Forming Roll Idler Roll Station 2-3 BLF T-3 Forming Roll BLF T-4 Forming Roll BLF T-6 Forming Roll BLF T-6 Forming Roll BLF T-7 Forming Roll BLF B-1 Forming Roll BLF B-1 Forming Roll BLF B-2 Forming Roll BLF B-3 Forming Roll BLF B-4 Forming Roll BLF B-5 Forming Roll BLF B-6 Forming Roll BLF B-7 Forming Roll BLF B-7 Forming Roll
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BLM B-5 Forming Roll Auxiliary BLM B-6 Forming Roll Auxiliary BLM B-7 Forming Roll Auxiliary Exit Gauge Angle Iron Entrance Gauge Bar	BX Cable 12-3 x 66 BLM B-1 4P Forming Roll Auxiliary BLM B-2 Forming Roll Auxiliary BLM B-3 Forming Roll Auxiliary BLM B-4 Forming Roll Auxiliary	Entrance Table Pad Cover Motor Base (Angle Iron) 2 HP 3 PH 60 Cycle 230/460 Volt 3600 RPM BX Connectors	1/2-13 x 1 SHCS 1/2-13 x 1 FHSCS Alemite Fitting Machine Stand Table Top Spacer Guide	1/2 Lockwasher 1/2-13 x 1-1/2 HHCS Lube Bolt 3/8-16 x 6-1/2 Stud 3/8 x 1 Dowel	5/8-II × 9'/2, thtcs 5/8 x3/16 Washer 5/8 Spring Washer Saddle Washer 1/4-20 x 1/2 Sq. HSS Plate Spacer Jam Nut 3/8-16 Nut Washer 3/8 Spring Water	Lower Back Plate 1st Drive Shaft 2nd Drive Shaft 3rd Drive Shaft Hex Head Stud Assembly
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Idler Bracket Assembly Hold Down Stud 9 Woodruff Key 3/16 Sq. x 7/8 Key	Motor Sheave 15 Woodruff Key 3/32 x 3/16 Key 3/8-16 x 1-3/4 Carriage Bolt 3/8-16 x 1 Carriage Bolt 4/8-162412 Torr Bearing 8-1416 Torr Bearing 8-1612 OH Torr Bearing 8-1612 OH Torr Bearing 8-1612 OH Torr Bearing 8-108 Torr Bearing 9-108 Torr Bearing 109-109-109-109-109-109-109-109-109-109-	BLM T-5 Forming Roll Auxiliary BLM T-6 Idler Roll Bearing B-88 BLM T-7 Idler Roll 2BK80 H-1 Machine Pulley	DESCRIPTION D Entrance Hold Down BLM T-1 Forming Roll Auxiliary BLM T-2 Forming Roll Auxiliary BLM T-3 Forming Roll Auxiliary BLM T-4 Forming Roll Auxiliary	ARIS LIST AND DESCRIPTION
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