

flagler

Designers and Manufacturers of Sheet Metal Roll Forming Machinery

Flagler Button Lock Auxilliary Rolls

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INSTRUCTIONS FOR MOUNTING AUXILIARY ROLLS
(20 GAUGE BUTTON LOCK)

Machine auxiliary shafts are designed to accommodate auxiliary rolls. To install these rolls, proceed as follows:

1. Remove the section of the table top side plate on the side of the machine which the rolls are to be mounted.
2. If auxiliary rolls are now on the machine, remove the retaining bolts and washers. Remove all parts not pertaining to the set to be used.
3. Place all Woodruff Keys in proper location.
4. Select the first pair of rolls which are marked "T-1" and "B-1" and place them on the shaft at the entrance end of the machine. Place the "T-1" roll on the upper shaft and the "B-1" roll on the lower. Repeat procedure through all roll stations.

All rolls marked "T" should be mounted on the top shaft and the "B" rolls mounted on the bottom shaft in numerical order. NUMBERED SIDE OF ROLLS MUST FACE OUTWARDS.

5. After the rolls are installed, fasten the rolls with retaining screws and washers.
6. Mount entrance and exit gauges to the stand, using the slotted holes provided in the table top. Set entrance gauges by placing a straight edge along the outer edge of the auxiliary rolls, measure to the required amounts in from the straight edge to the extreme ends of the entrance gauge.

OPERATION MALE LOCK

Male Lock mounted on auxiliary shafts, right side of machine (opposite of pulley side). Roll capacity 20 gauge, cold rolled, mild steel.

ENTRANCE GAUGE SETTING - MALE LOCK

Entrance gauge is set from a straight edge placed along the outer face of the auxiliary rolls. Measure 1" from straight edge to end of entrance gauge nearest No. 3 roll, and 1" to the end of the entrance gauge bar furthest from the No. 1 roll. This feed gauge is to be kept parallel unless severe run-out conditions are noted. If these conditions are noted, a 1/32" taper in the entrance gauge setting will assist in eliminating the run-out. Note the above settings are approximate and may vary slightly to meet your requirements. Run a test piece of material through the machine and note the results. If a longer leg is required, increase the 1" dimension accordingly or if a shorter leg is required decrease the gage setting.

We advise that when assembling the rolls at the #2 station on the male lock it is important that the spacing between the shear roll (outside top roll) and the buttons on the bottom roll have a minimum clearance of .010.

Enclosed you will find some .005 shims to assemble on the shafts with the rolls to assure the proper clearance.

INSTRUCTIONS FOR MOUNTING AUXILIARY ROLLS
(20 GAGE BUTTON LOCK)

OPERATION FEMALE LOCK

Female lock mounted on auxiliary shafts, left side of machine (pulley side). Roll capacity - 20 gauge, cold rolled, mild steel.

ENTRANCE GAUGE SETTING - FEMALE LOCK

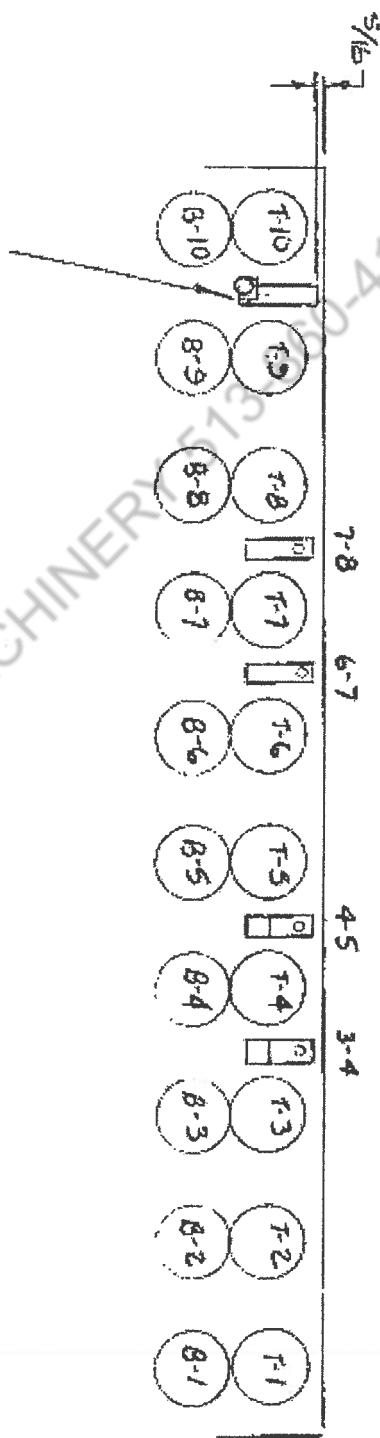
Entrance angle gauge is set by placing a straight edge along the outer face of the auxiliary rolls. Measure 2-9/16" from straight edge to end of gauge nearest the No. 1 roll, and 2-5/8" from straight edge to end of gauge furthest from No. 1 roll. These measurements will leave a 1/16" taper in the entrance gauge setting which is necessary to hold the material to the gauge. Note the above settings are approximate and may be slightly increased or decreased to meet your particular requirements. Run a piece of test material through the machine and note the results. If the results are satisfactory, the machine is ready for production running. If not, to increase the size of the small hem, add whatever is required to the gage setting. To decrease the size of the small hem, subtract whatever is required from the gage setting. Upward or downward bow. Should material have an excessive upward bow, adjust the straightening roll on the exit end of the machine to compensate for the excessive bow.

EXIT GAUGE

Exit angle iron should be set about 1/32" away from the material. After a satisfactory setting is obtained on all planes, lock all entrance gauge studs, exit angle iron, etc. firmly into position for production running.

Part No.	Description	Quantity
20-QG4-2	Holechasing R011 (for cutters)	1
20-QG85	Btn 3 Male Btn. Lock R011	1
20-QG86	Btn 4 Male Btn. Lock R011	1
20-QG87	Btn 5 Male Btn. Lock R011	1
20-QG88	Btn 6 Male Btn. Lock R011	1
20-QG89	Btn 7 Male Btn. Lock R011	1
20-QG90	Btn 8 Male Btn. Lock R011	1
20-QG91	Btn 9 Male Btn. Lock R011	1
20-QG92	Btn 10 Male Btn. Lock R011	1
20-QG93	Btn 11 Male Btn. Lock R011	1
20-QG94	Btn 12 Male Btn. Lock R011	1
20-QG95	Btn 13 Male Btn. Lock R011	1
20-QG96	Btn 14 Male Btn. Lock R011	1
20-QG97	Btn 15 Male Btn. Lock R011	1
20-QG98	Btn 16 Male Btn. Lock R011	1
20-QG99	Btn 17 Male Btn. Lock R011	1
20-QG100	Btn 18 Male Btn. Lock R011	1
20-QG101	Btn 19 Male Btn. Lock R011	1
20-QG102	Btn 20 Male Btn. Lock R011	1
20-QG103	Btn 21 Male Btn. Lock R011	1
20-QG104	Feed Bag	1
20-QG105	Tool Box	1
20-QG106	Tool Steels	1
20-QG107	2,000x1,500x1,188x18,375 AI	1
20-QG108	2,000x1,500x1,188x18,375 AI	1
20-QG109	2,500x1,500x1,625 Tool Steels	1
20-QG110	2,000x1,500x1,188x18,375 AI	1
20-QG111	2,500x1,500x1,625 Tool Steels	1
20-QG112	3,000x1,500x1,625 Tool Steels	1
20-QG113	3,000x1,500x1,625 Tool Steels	1
20-QG114	3,000x1,500x1,625 Tool Steels	1
20-QG115	3,000x1,500x1,625 Tool Steels	1
20-QG116	3,000x1,500x1,625 Tool Steels	1
20-QG117	3,000x1,500x1,625 Tool Steels	1
20-QG118	3,000x1,500x1,625 Tool Steels	1
20-QG119	3,000x1,500x1,625 Tool Steels	1
20-QG120	3,000x1,500x1,625 Tool Steels	1
20-QG121	3,000x1,500x1,625 Tool Steels	1
20-QG122	3,000x1,500x1,625 Tool Steels	1
20-QG123	3,000x1,500x1,625 Tool Steels	1
20-QG124	3,000x1,500x1,625 Tool Steels	1
20-QG125	3,000x1,500x1,625 Tool Steels	1
20-QG126	3,000x1,500x1,625 Tool Steels	1
20-QG127	3,000x1,500x1,625 Tool Steels	1
20-QG128	3,000x1,500x1,625 Tool Steels	1
20-QG129	3,000x1,500x1,625 Tool Steels	1
20-QG130	3,000x1,500x1,625 Tool Steels	1
20-QG131	3,000x1,500x1,625 Tool Steels	1
20-QG132	3,000x1,500x1,625 Tool Steels	1
20-QG133	3,000x1,500x1,625 Tool Steels	1
20-QG134	3,000x1,500x1,625 Tool Steels	1
20-QG135	3,000x1,500x1,625 Tool Steels	1
20-QG136	3,000x1,500x1,625 Tool Steels	1
20-QG137	3,000x1,500x1,625 Tool Steels	1
20-QG138	3,000x1,500x1,625 Tool Steels	1
20-QG139	3,000x1,500x1,625 Tool Steels	1
20-QG140	3,000x1,500x1,625 Tool Steels	1
20-QG141	3,000x1,500x1,625 Tool Steels	1
20-QG142	3,000x1,500x1,625 Tool Steels	1
20-QG143	3,000x1,500x1,625 Tool Steels	1
20-QG144	3,000x1,500x1,625 Tool Steels	1
20-QG145	3,000x1,500x1,625 Tool Steels	1
20-QG146	3,000x1,500x1,625 Tool Steels	1
20-QG147	3,000x1,500x1,625 Tool Steels	1
20-QG148	3,000x1,500x1,625 Tool Steels	1
20-QG149	3,000x1,500x1,625 Tool Steels	1

HELPERS BLOCKS FOR
 $\frac{1}{2}$ " FEMALE BUTTON LOCK ROLLS
 LEFT SIDE OF MACHINING

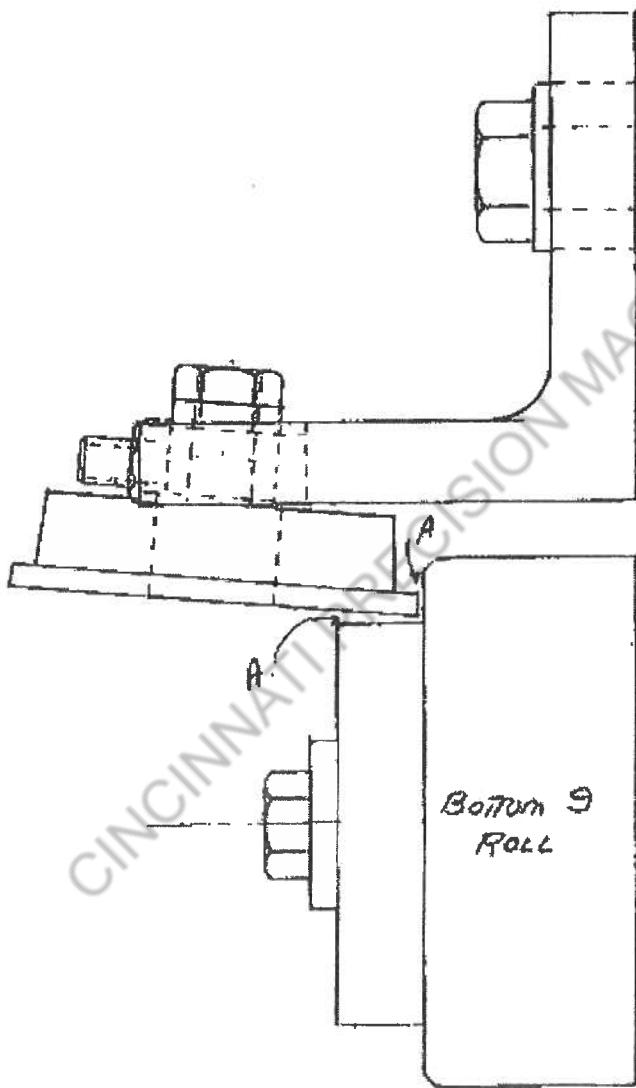


STRAIGHTENER INSTALLED & ADJUSTED TO
 $\frac{3}{16}$ DIMENSION - THIS IS A STARTING POINT
 AND MAY NEED FURTHER ADJUSTMENT AS
 NECESSARY.

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PRINTED ON DATE:	01/09/04
SCALE	1:1
UNITS	INCHES
CHECKED	DECIMAL
APPROVED	ANGLES
PART NAME	PART NO.

MATERIAL THICKNESS
CLEARANCE SHOULD BE IN THE
CORNER BETWEEN THE TOP IDLER
ROLL & THE BOTTOM #9 ROLL
(AREA A)

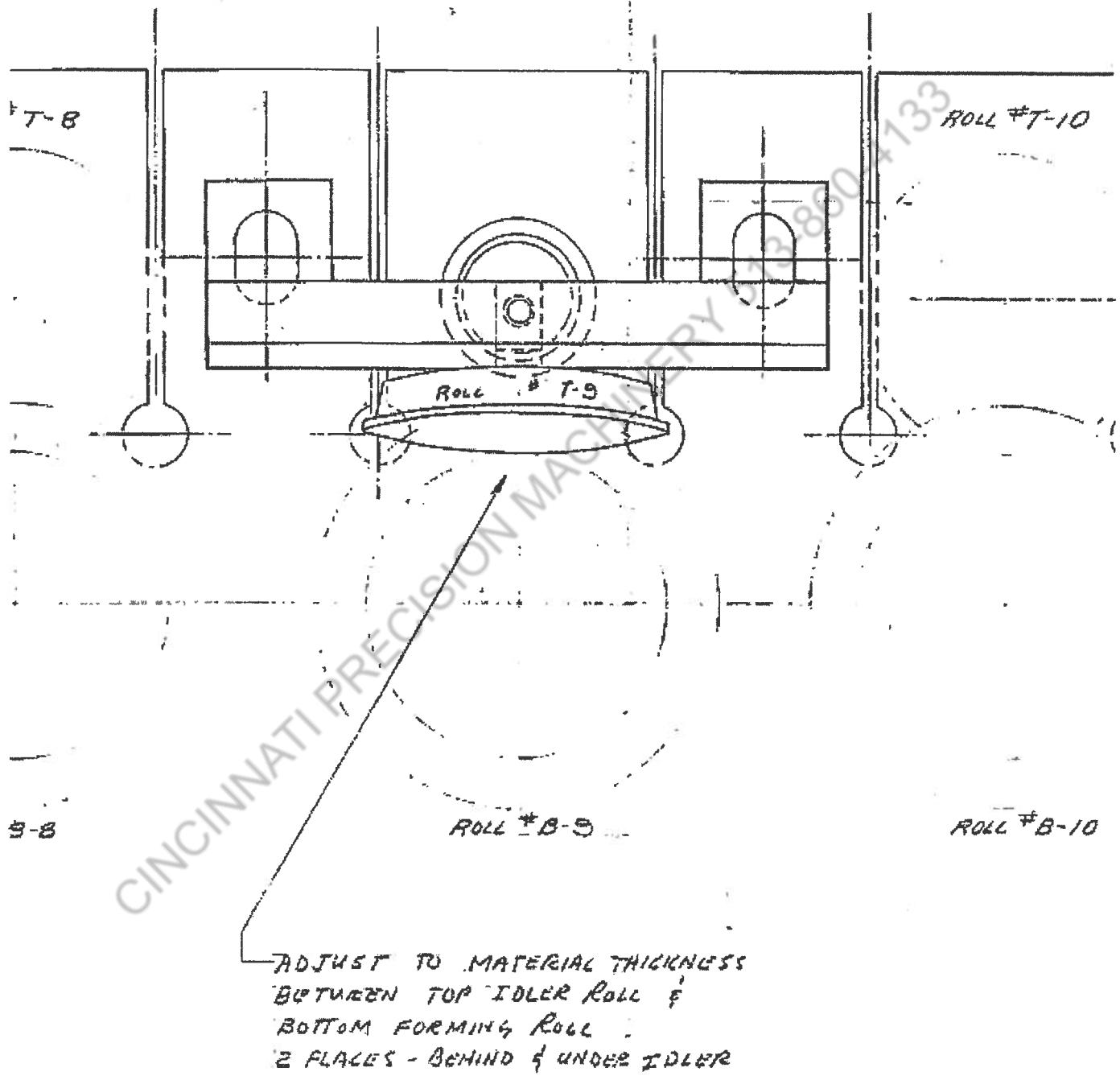
MALE BUTTON LOCK
#9 STATION



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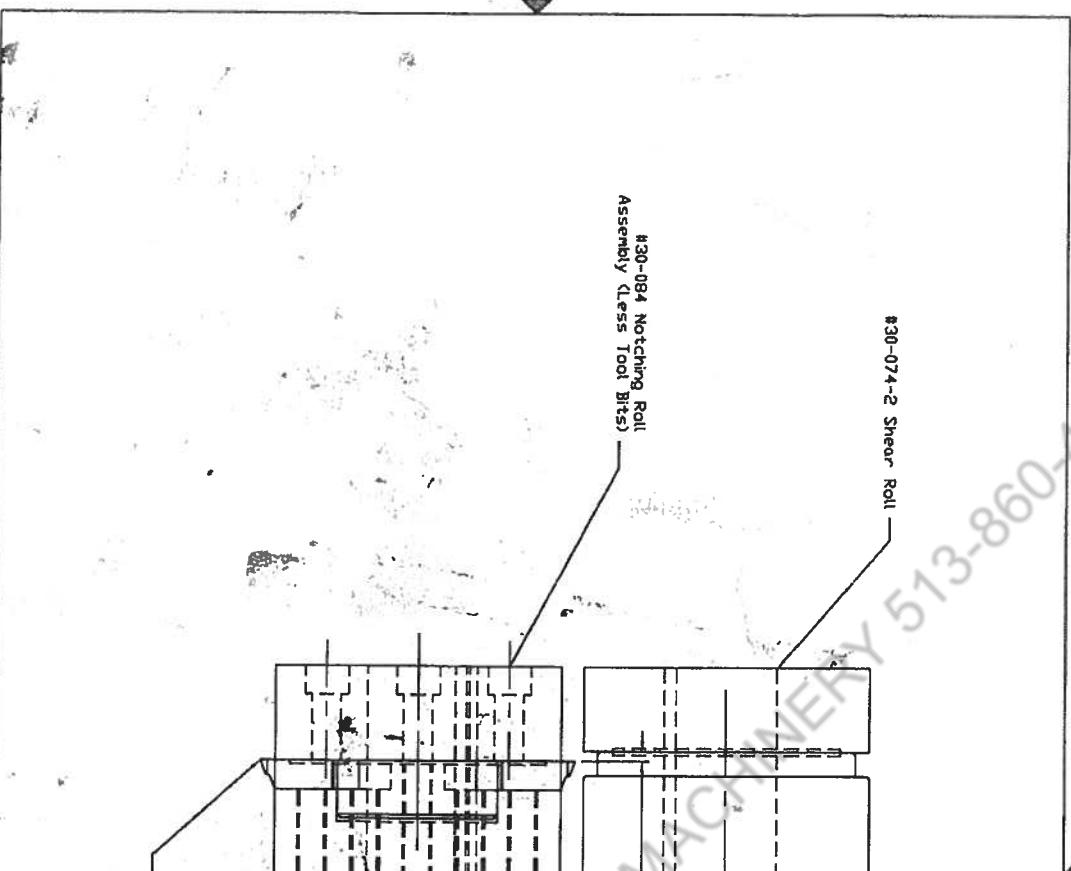
FLAGLER CORP.
5010 PRECISION DR.
CHESTERFIELD, MI 48061



USER

2/8/09

STATION-2



For: $\frac{3}{8}$ " Male Button Lock

Part: Notching Roll Assembly

Requires: 1

Drawing:

Date:

Scale:

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