

SINGER
885-113

THE SINGER 885-113 MACHINE

Description

The 885-113 machine is designed for application in the trimming and setting of shoulder pads in suits and coats. It is similar to the 1110117 machine except in the following respects:

- a. Modification has been made to provide $2\frac{1}{2}$ SPI as compared to 3 SPI.
- b. Two needle thread tensions are provided.
- c. A special adjustable tension release to compensate for varying material thickness has been incorporated.
- d. Maximum recommended speed is 1100 RPM.

Adjustments

Tension Release Bracket

With no material under the presser foot, the lifting presser foot should raise approximately $1/16"$ when the tension release pin engages the tension release bracket to open the tension discs on Tension "A"- Figure 1.

If adjustment is required, loosen Screw "C"- Figure 2 and move the tension release bracket up or down to make the tension discs open earlier or later.

Needle Thread Tensions

Tension "B"- Figure 1 maintains sufficient control on the needle

FIGURE 1

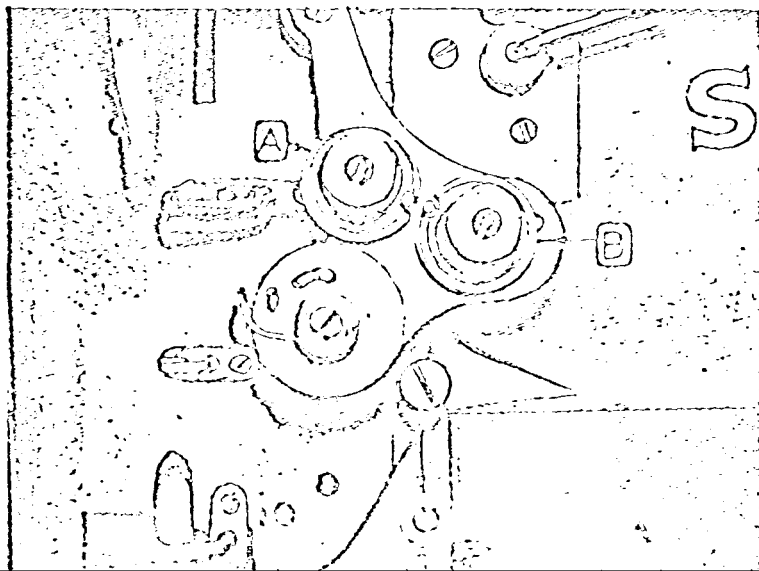
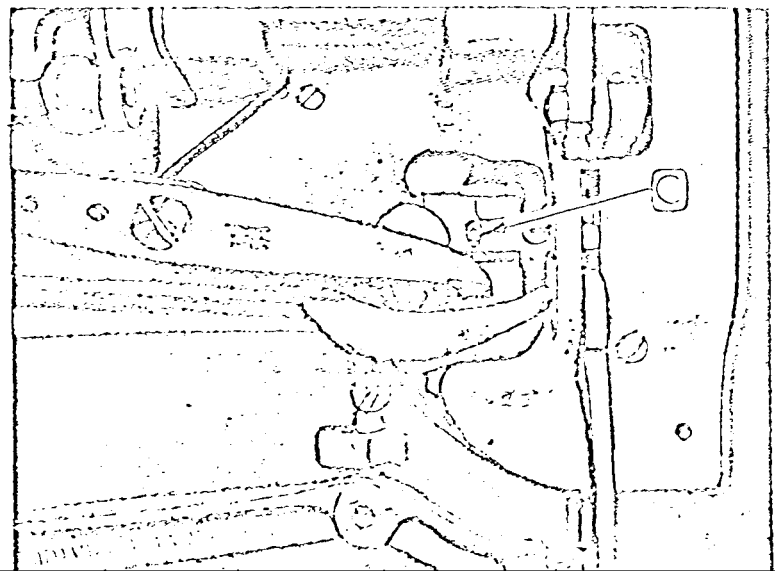


FIGURE 2



THE SINGER 885-113 MACHINE

Single Needle, Lockstitch, Compound Feed, Vertical Trimmer
(111G117 Converted for 2 1/2 Stitches Per Inch)

MAXIMUM RECOMMENDED MACHINE SPEED: 1100 RPM. *126X11*
NEEDLE Cat. #4506 #2

Parts List

<i>Altered</i>	Tension Complete	223705	
	Tension Release Pin	235576	
	Foot Lifter Lever Spring	227561	
	Needle Bar Rock Frame Crank Pinch Screw	200029	
	Feed Driving Connection Cap Screw	494230-001	
<i>Altered</i>	Feed Dog	491716	Specify Gauge
<i>Altered</i>	Vibrating Presser Foot	491717	Specify Gauge
<i>Altered</i>	Feed Driving Rock Shaft Crank	492065-001	
<i>New</i>	Throat Plate Body	492065-002	Specify Gauge
<i>Altered</i>	Needle Bar Rock Frame Rock Shaft Crank	492065-003	
<i>New</i>	Feed Bar	492065-004	
<i>Altered</i>			
<i>New</i>	Actuator Finger Insert	492065-007	
<i>Altered</i>	Presser Bar Lifting Bracket	492065-006	
<i>Altered</i>	Feed Driving Rock Shaft	492065-009	
	Throat Plate Knife Cutting Bar (1/8)	491718008	
	Throat Plate Knife Cutting Bar (5/32)	491718010	
	Throat Plate Knife Cutting Bar (3/16)	491718012	
<i>Altered</i>	Throat Plate Knife Cutting Bar (1/4)	491718016	
	Throat Plate Knife Cutting Bar (9/32)	491718018	
	Throat Plate Knife Cutting Bar (5/16)	491718020	
	Throat Plate Knife Cutting Bar (3/8)	491718024	
	Lifting Presser Foot (1/8 & 5/32)	491727008	
	Lifting Presser Foot (3/16)	491727012	
<i>Altered</i>	Lifting Presser Foot (1/4)	491727016	
	Lifting Presser Foot (9/32 & 5/16)	491727018	
	Lifting Presser Foot (3/8)	491727024	

The Singer Company
Industrial Products Division
Mechanized Systems Department

Clifton Laboratory
Clifton, N. J.
1/18/66

Black - Altered in machine - Parts not interchangeable

Red - Removed from machine - Altered to Print

Blue - New parts made to Print

Adjustments (cont.)

thread while Tension "A"- Figure 1 is released. The setting of this tension is generally very light.

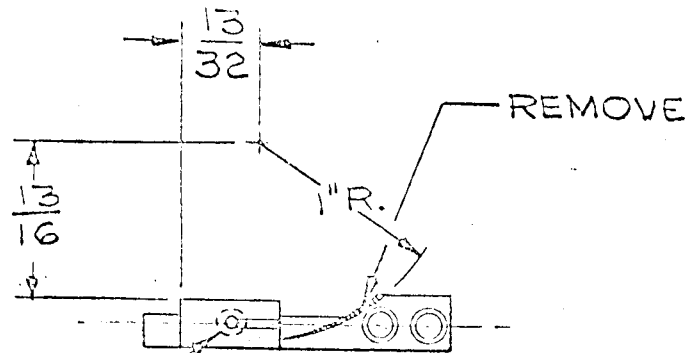
PARTS LIST

<u>Description</u>	<u>Part No.</u>
Tension Complete	223705
Tension Release Pin	235576
Foot Lifter Lever Spring	227561
Needle Bar Rock Frame Crank Pinch Screw	200029
Feed Driving Connection Cap Screw	494230-001
Feed Dog	491716 (Spec. Gauge)
Vibrating Presser Foot	491717 (Spec. Gauge)
Feed Driving Rock Shaft Crank	492065-001
Throat Plate Body	492065-002 (Spec. Gauge)
Needle Bar Rock Frame Rock Shaft Crank	492065-003
Feed Bar	492065-004
Needle Bar Rock Frame Rock Shaft Crank Connection	492065-005
Presser Bar Lifting Bracket	492065-006
Actuator Finger Insert	492065-007
Feed Driving Connection	492065-008
Feed Driving Rock Shaft	492065-009
Throat Plate Knife Cutting Bar (1/8)	491718-003
Throat Plate Knife Cutting Bar (5/32)	491718-010
Throat Plate Knife Cutting Bar (3/16)	491718-012
Throat Plate Knife Cutting Bar (1/4)	491718-016
Throat Plate Knife Cutting Bar (9/32)	491718-018
Throat Plate Knife Cutting Bar (5/16)	491718-020
Throat Plate Knife Cutting Bar (3/8)	491718-024
Lifting Presser Foot (1/8 & 5/32)	491727-003
Lifting Presser Foot (3/16)	491727-012
Lifting Presser Foot (1/4)	491727-016
Lifting Presser Foot (9/32 & 5/16)	491727-018
Lifting Presser Foot (3/8)	491727-024
Needle (#126 x 11)	4506-211

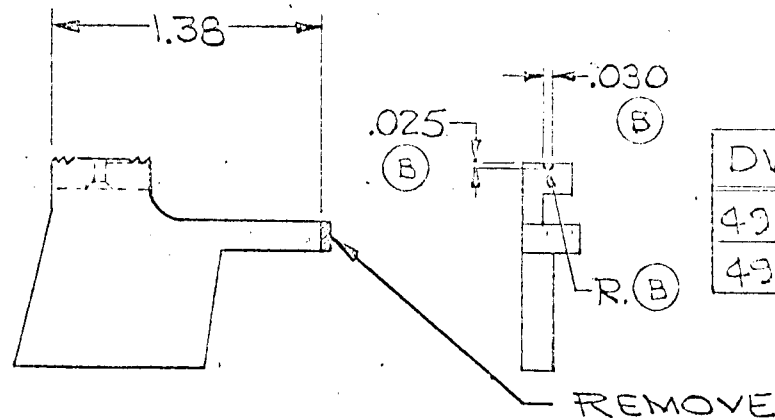
PART NO.	DESCRIPTION	IN STOCK	MADE FROM SINGER PART	SINGER PART IN STOCK	BACK ORDER
223905	TENSION				
235576	" RELEASE PIN				
227561	FOOT LIFTER LEVER SPRING				
200029	SCREW				
494230-001	SCREW				
494997-001	III G117				
492065-001	FEED FRAME ROCK SHAFT CARRIAGE				
492065-002	THROAT PLATE BODY			240401	
492065-003	N.B. ROCK FRAME CRANK				
492065-006	P.B. LIFTING BRACKET			264526	
492065-007	INSERT				
491717-001	V. PRESSER FOOT $\frac{1}{8} - \frac{5}{32}$			240496	
491717-002	" " " $\frac{3}{16} - \frac{3}{8}$			240497	
491718-008	CUTTING BAR $\frac{1}{8}$ "			240384	
491718-010	" " $\frac{5}{32}$			240481	
491718-012	" " $\frac{3}{16}$			240483	
491718-016	" " $\frac{1}{4}$			240421	
491718-018	" " $\frac{9}{32}$			240488	
491718-020	" " $\frac{5}{16}$			240490	
491718-024	" " $\frac{3}{8}$ "			240494	
491727-008	L. PRESSER FOOT $\frac{1}{8} - \frac{5}{32}$			240472	
491727-012	" " " $\frac{3}{16}$			240473	
491727-016	" " " $\frac{1}{4}$			240474	
491727-018	" " " $\frac{9}{32} - \frac{5}{16}$			240475	
491727-024	" " " $\frac{3}{8}$			240476	
491716-001	FEED DOG $\frac{1}{8} - \frac{5}{32}$			240456	
491716-002	" " $\frac{3}{16} - \frac{3}{8}$			240457	

REVISIONS

SYM.	DESCRIPTION	CHG'D BY	CHK'D BY	DATE
A	ADDED CHART	WFC		7-21-65
B	ADDED .030 X .025 GROOVE	WFC		8-15-67



1/16 R. ALL AROUND
(OPPOSITE SIDE)

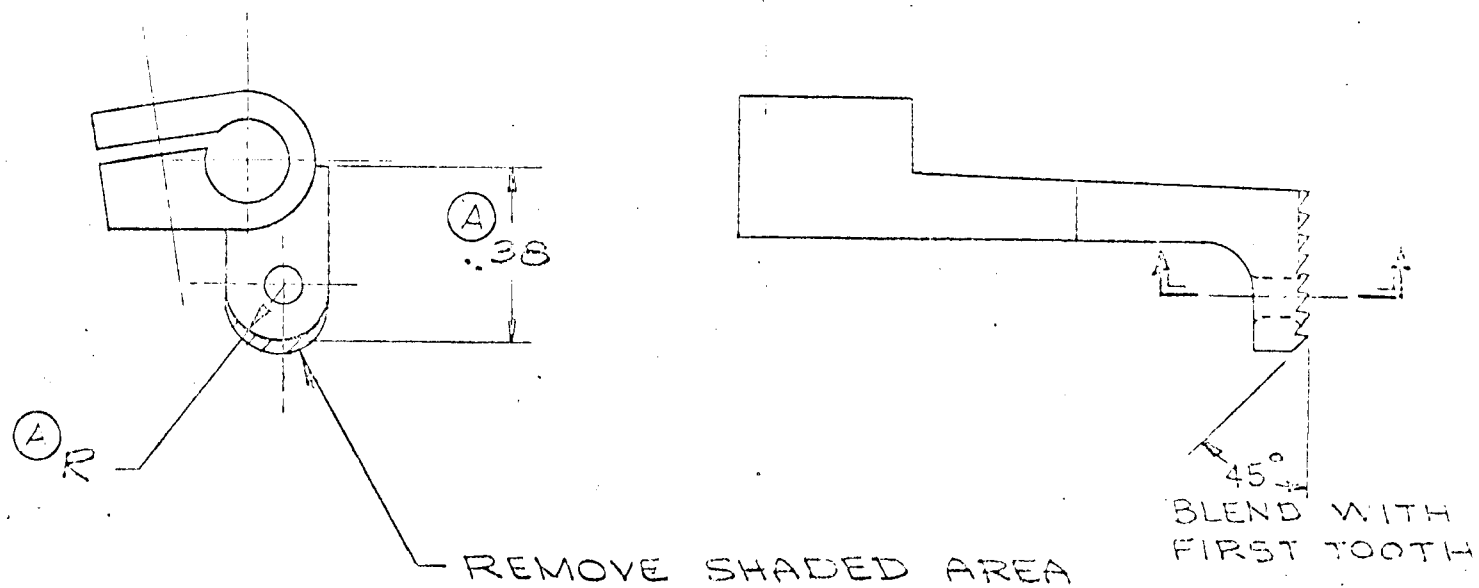


DWG. NO.	MATERIAL	CAGE
491716-001	240456	1/3
491716-002	240457	5/32 TO 3/8

ITEM NO.		REQ'D.		DESCRIPTION		DWG. OR CAT. NO.	
NAME		FEED DOG , IIIW117					
MATERIAL		SEE CHART					
HEAT TREATMENT							
FINISH							
TOLERANCE UNLESS OTHERWISE SPECIFIED							
FRACTIONS: ± 1/64		ANGLES: ±		ALL EDGES BROKEN .005 - .010		DATE OF ISSUE	
MAL: 2 PLACES ± .010 3 PLACES ± .005						JUL 27 1965	
PROJECT NUMBER		THE SINGER COMPANY INDUSTRIAL PRODUCTS DIVISION MECHANIZED SYSTEMS DEPARTMENT					
DRAWING NUMBER		491716					

REVISIONS

SYM.	DESCRIPTION	CHG'D BY	CHG'D BY	DATE
A	REDIMENSIONED; REMOVED .11 FROM 1/16 APPROX.	N.C.	W.F.C.	10/10/65
B	ADDED CHART & TWO VIEWS WITH DIMS.	W.F.C.		10/10/65
C	CHG'D. MATERIAL TO SEE CHART	W.F.C.		10/10/65



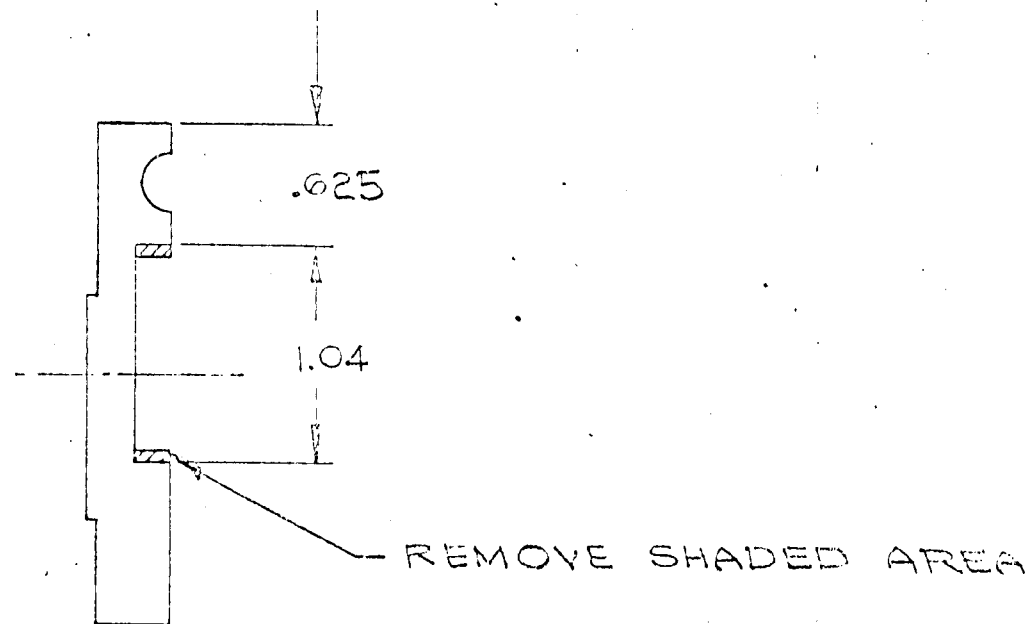
DWG. NO.	MATERIAL	GAGA
91717-001	240496	1/8 & 5/32
91717-002	240497	3/16 TO 3/8

ITEM NO.	REQ'D.	DESCRIPTION	DWG. OR CAT. NO.
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		NAME	VIBRATING PRESSER FOOT, IIIW117				PROJECT NUMBER	
		MATERIAL	SEE CHART	DRAWN BY	N.C.	CHECKED BY	W.F.C.	THE SINGER COMPANY INDUSTRIAL PRODUCTS DIVISION MECHANIZED SYSTEMS DEPARTMENT
		HEAT TREATMENT		DATE DRAWN	7-22-65	ENG. APPR.	1/1	
65-113		FINISH		SCALE	2:1	MFG. APPR.		DRAWING NUMBER
USED ON	TOLERANCE UNLESS OTHERWISE SPECIFIED			DATE OF ISSUE	OCT 27 1965			
DIMINAL: 2 PLACES ± .010 3 PLACES ± .005		FRACTIONS: ± 1/64	ANGLES: ±	ALL EDGES BROKEN .005 - .010		491717		

491718 REVISIONS

SYM.	DESCRIPTION	CHG'D BY	CHK'D BY	DATE
A	ADDED TABLE			11/2/65



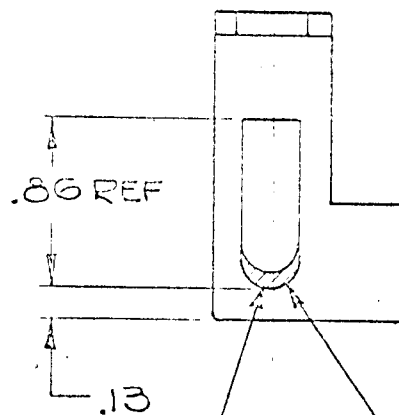
491718001	1/8	3-40-151
491718002	1/16	3-40-190
491718003	3/32	3-40-155
491718004	1/4	3-40-151
491718005	3/16	3-40-151
491718006	1/2	3-40-151
491718007	3/4	3-40-151
491718008	1	3-40-151
PART NO.		3-40-151

ITEM NO.		REQ'D.		DESCRIPTION				DWG. OR CAT. NO.	
NAME		THROAT PLATE KNIFE CUTTING BAR				IIIWI17		PROJECT NUMBER	
MATERIAL						DRAWN BY		N.C.	
HEAT TREATMENT						DATE DRAWN		7-22-65	
FINISH						SCALE		1:1	
USED ON						MFG. APPR.			
TOLERANCE UNLESS OTHERWISE SPECIFIED									
DECIMAL: 2 PLACES $\pm .010$		FRACTIONS: $\pm 1/64$		ANGLES: $\pm$		ALL EDGES BROKEN .005 - .010		DATE OF ISSUE	
3 PLACES $\pm .005$								401 24 1965	
THE SINGER COMPANY INDUSTRIAL PRODUCTS DIVISION MECHANIZED SYSTEMS DEPARTMENT DRAWING NUMBER 491718									

491727

REVISIONS

SYM.	DESCRIPTION	CHG'D BY	CHG'D NO.	DATE
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R.

REMOVE SHADED AREA

491727004	1	1-20-47
491727015	2	1-20-47
491727016	14	1-20-47
491727012	116	1-20-47
491727008	1	1-20-47
PART NO	1	1-20-47

ITEM NO.	REQ'D.	DESCRIPTION	DWG. OR CAT. NO.
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NAME		LIFTING PRESSER FOOT , IIIW117				PROJECT NUMBER	
MATERIAL		SEE CHART		DRAWN BY	N.C.	CHECKED BY	W.F.C.
HEAT TREATMENT				DATE DRAWN	7-22-65	ENG. APPR.	1/1
FINISH				SCALE	1:1	MFG. APPR.	
TOLERANCE UNLESS OTHERWISE SPECIFIED							
DIMINAL: 2 PLACES ± .010 3 PLACES ± .005		FRACTIONS: ± 1/64		ANGLES: ±		ALL EDGES BROKEN .005 - .010	
USED ON				DATE OF ISSUE		007 11/1/65	

THE SINGER COMPANY
INDUSTRIAL PRODUCTS DIVISION
MECHANIZED SYSTEMS DEPARTMENT

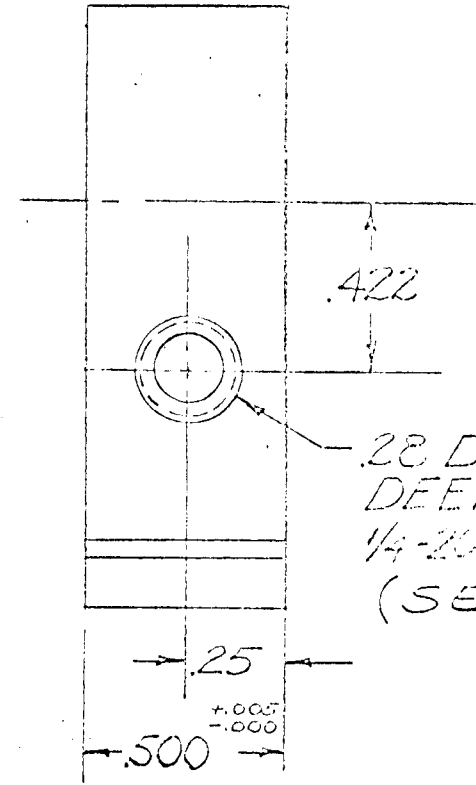
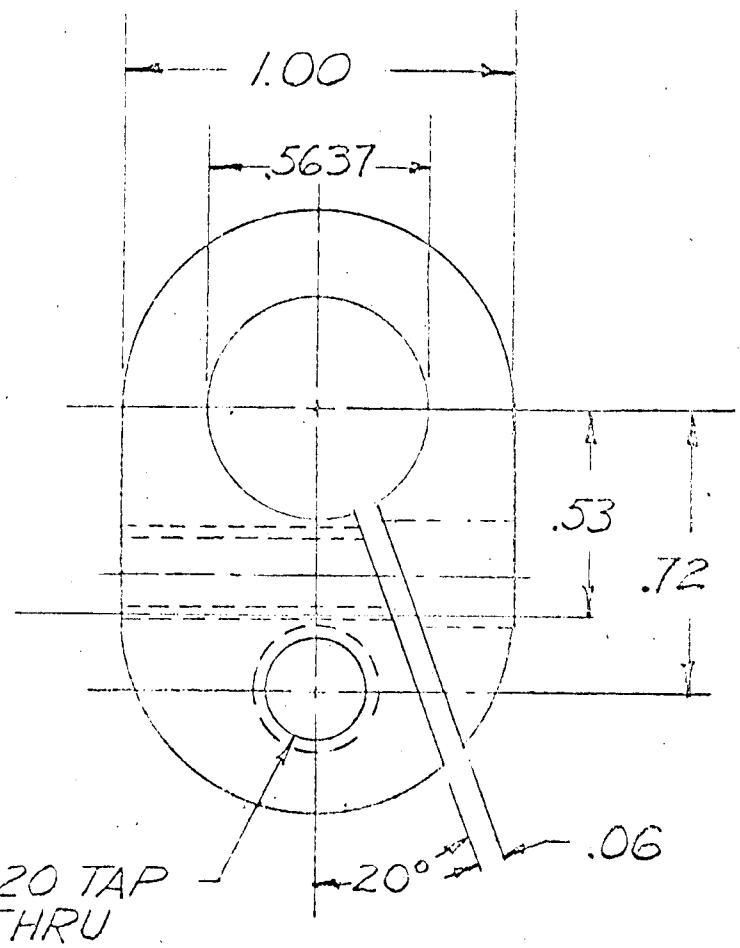
DRAWING NUMBER

491727

492065-001

REVISIONS

SYM.	DESCRIPTION	CHG'D BY	CHG'D BY	DATE
C	REDRAWN WITH CHANGES	RML		
D	ADDED NOTE #1	RML		1-17-66
E	REMP. DIMS. .87 DIA & .970	RML		1-17-66



28 DIA. C'BORE X .25 DEEP. DRILL & TAP 1/4-20 THD THRU (SEE NOTE)

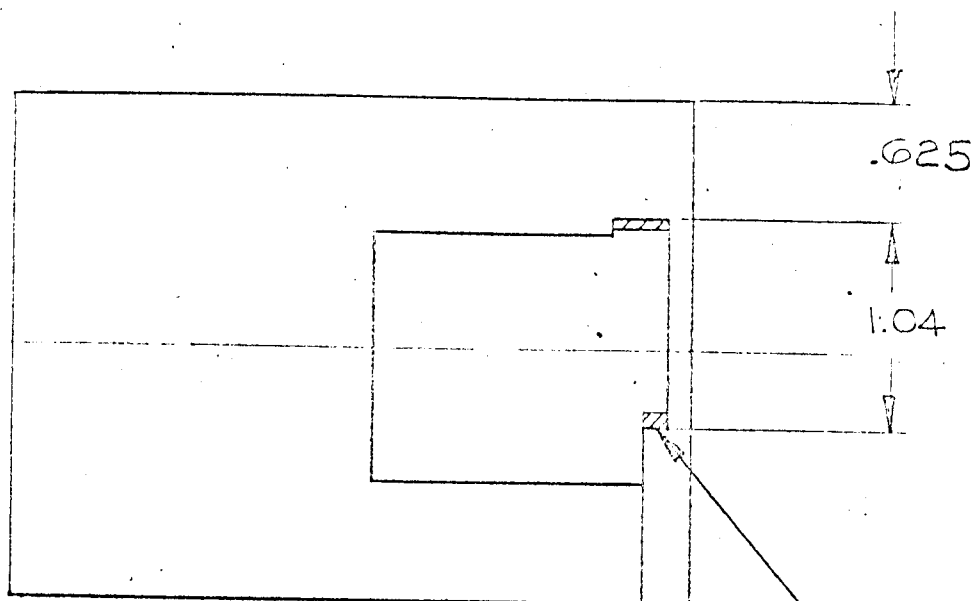
NOTE:
1- ASSEMBLE SCREW, FIL. HD. #1/4-20 X 1" LG.
2- BEFORE STOCKING PART

OLD NO MSD 1554

ITEM NO.		REQ'D.	DESCRIPTION			DWG. OR CAT. NO.	
NAME		FEED DRIVING ROCK SHAFT CRANK					PROJECT NUMBER
MATERIAL		STEEL					THE SINGER COMPANY INDUSTRIAL PRODUCTS DIVISION MECHANIZED SYSTEMS DEPARTMENT
HEAT TREATMENT		DRAWN BY RML					
FINISH		DATE DRAWN 1-17-66					
USED ON		SCALE 2:1					DRAWING NUMBER
TOLERANCE UNLESS OTHERWISE SPECIFIED		DATE OF ISSUE					492065-001
DECIMAL: 2 PLACES ± .010 3 PLACES ± .005		FRACTIONS: ± 1/64		ANGLES: ±		ALL EDGES BROKEN .005 - .010	

REVISIONS

SYM.	DESCRIPTION	CHG'D BY	CHK'D BY	DATE
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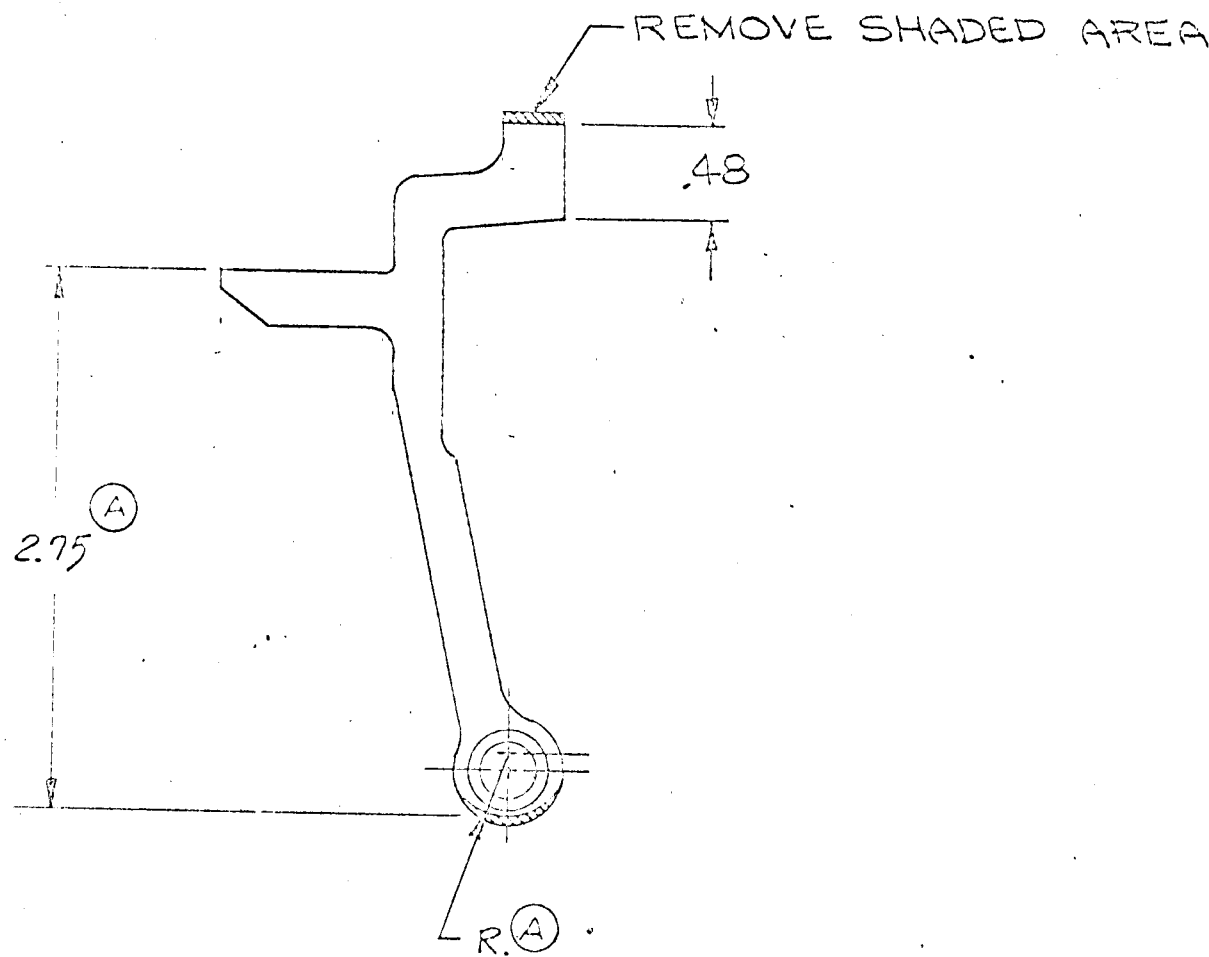
REMOVE SHADED AREA

ITEM NO.	REQ'D.	DESCRIPTION	DWG. OR CAT. NO.
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		NAME		THROAT PLATE BODY IIIW117				PROJECT NUMBER		DWG. OR CAT. NO.			
		MATERIAL		240401		DRAWN BY		N.C		CHECKED BY		WFL	
		HEAT TREATMENT				DATE DRAWN		7-22-68		ENG. APPR.		P.H.	
255-112		FINISH				SCALE		1:1		MFG. APPR.			
USED ON													
TOLERANCE UNLESS OTHERWISE SPECIFIED													
DECIMAL: 2 PLACES ± .010 3 PLACES ± .005				FRACTIONS: ± 1/64		ANGLES: ±		ALL EDGES BROKEN .005 - .010		DATE OF ISSUE		007 IN 305	
THE SINGER COMPANY INDUSTRIAL PRODUCTS DIVISION MECHANIZED SYSTEMS DEPARTMENT DRAWING NUMBER 422005-002													

REVISIONS

SYM.	DESCRIPTION	CHK'D BY	CHK'D BY	DATE
A2	REDIMENSIONED; REMOVED .48 R. WAS 5/16 R. ADDED .015	NOM	WFC	10/1/65



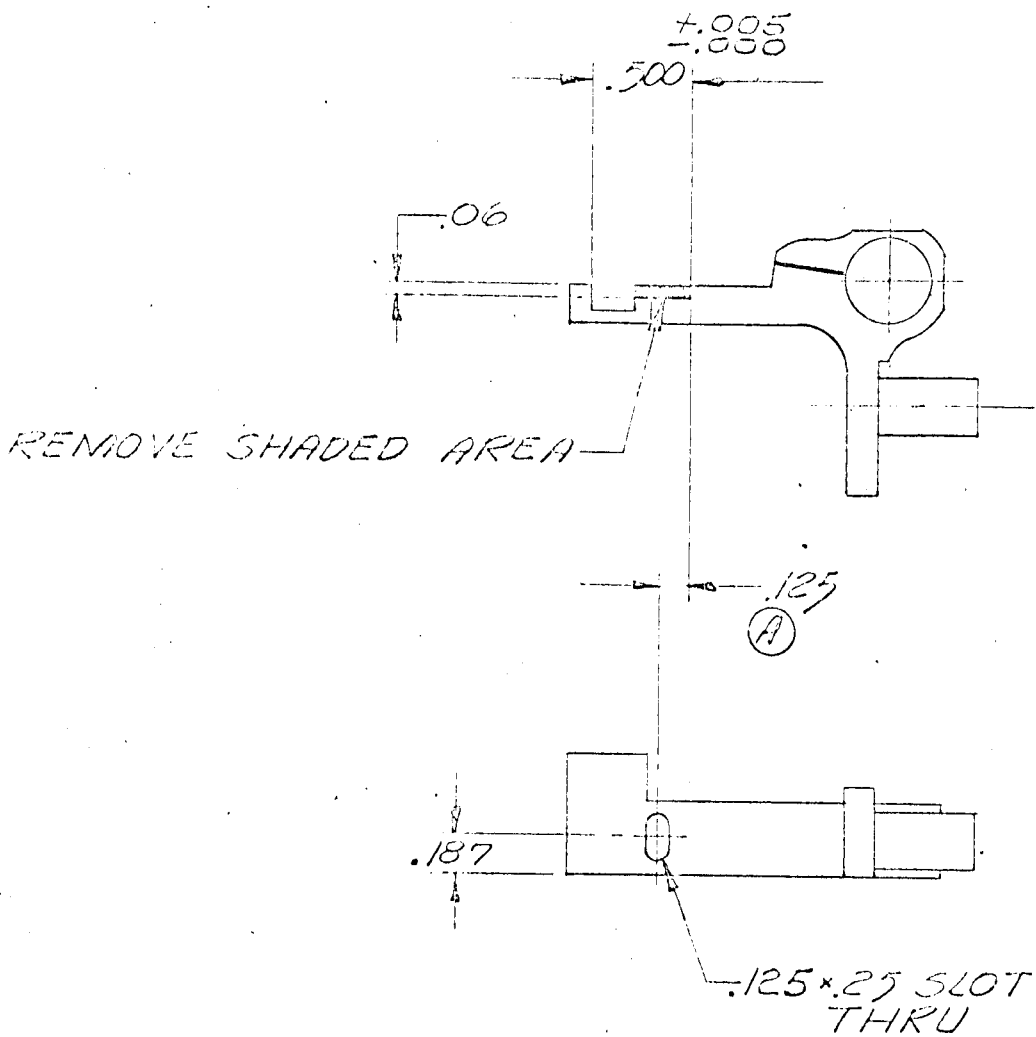
ITEM NO.	REQ'D.	DESCRIPTION	DWG. OR CAT. NO.
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NAME	FEED BAR , IIIW117			PROJECT NUMBER	
MATERIAL	240454	DRAWN BY	W.F.C.	CHECKED BY	W.F.C.
HEAT TREATMENT		DATE DRAWN	7-23-65	ENG. APPR.	
FINISH		SCALE	1:1	MFG. APPR.	
TOLERANCE UNLESS OTHERWISE SPECIFIED					
ALL: 2 PLACES ± .010 3 PLACES ± .005	FRACTIONS: ± 1/64	ANGLES: ±	ALL EDGES BROKEN .005 - .010	DATE OF ISSUE	10/1/65

THE SINGER COMPANY
INDUSTRIAL PRODUCTS DIVISION
MECHANIZED SYSTEMS DEPARTMENT

DRAWING NUMBER

122068 001



REVISIONS				
SYM.	DESCRIPTION	CHG'D BY	CHK'D BY	DATE
A	REDIMENSIONED LOCATION OF SLOT: DELETED .455 DIM	NOMI	11.F.C.	10-25-67

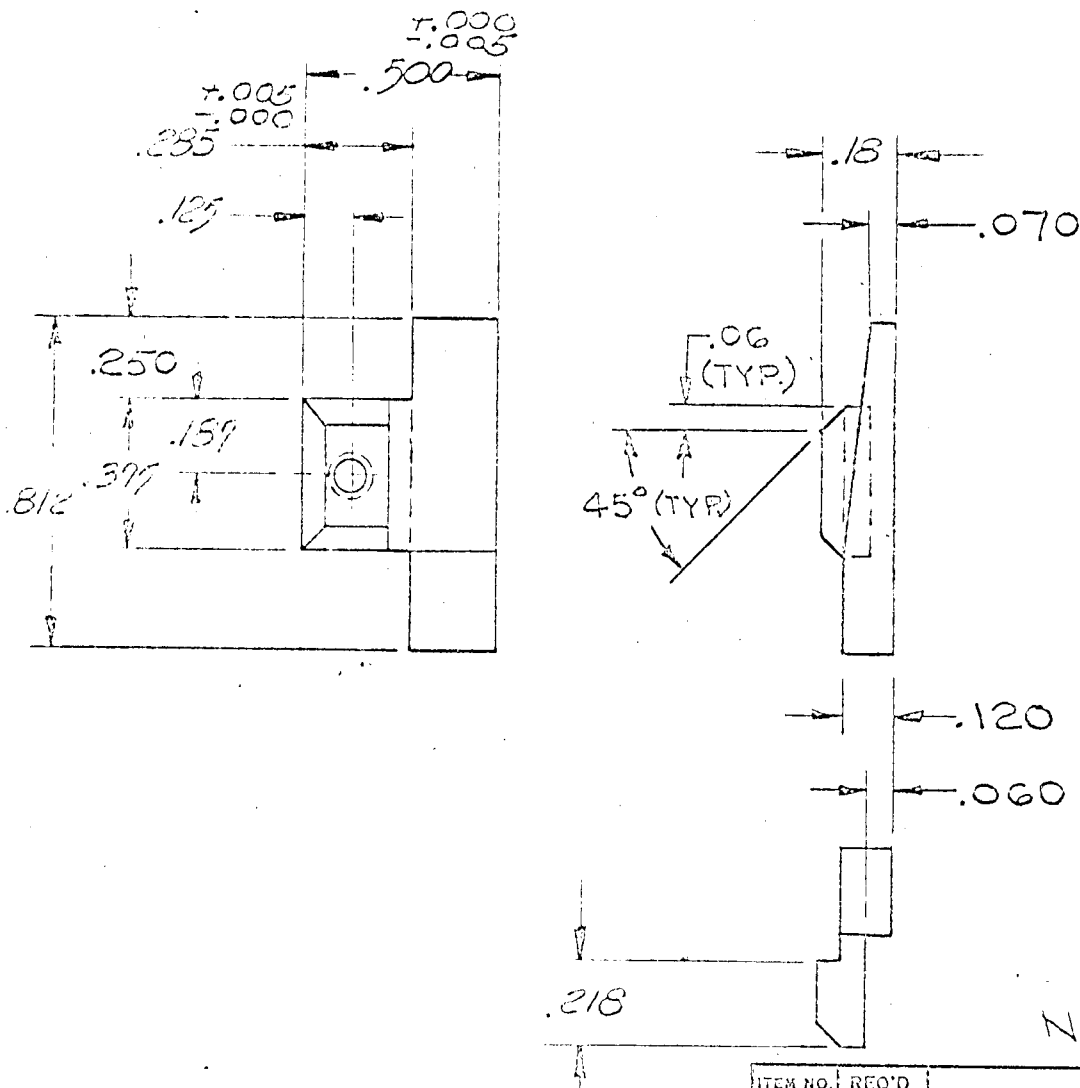
ITEM NO.	REQ'D.	DESCRIPTION	DWG OR CAT NO
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	NAME	PRESSER BAR LIFTING BRACKET				PROJECT NUMBER	
	MATERIAL	264526		DRAWN BY	NOMI	CHECKED BY	W.F.C.
	HEAT TREATMENT			DATE DRAWN	10-25-67	ENG. APPR.	
45-113	FINISH			SCALE	1-1	MFG. APPR.	
USED ON							
TOLERANCE UNLESS OTHERWISE SPECIFIED							
DIMINAL: 2 PLACES ± .010 3 PLACES ± .005		FRACTIONS: ± 1/64		ANGLES: ±		ALL EDGES BROKEN .005 - .010	
				DATE OF ISSUE		10-25-67	
THE SINGER COMPANY INDUSTRIAL PRODUCTS DIVISION MECHANIZED SYSTEMS DEPARTMENT							
DRAWING NUMBER							
1204-006							

4220K-000

REVISIONS

SYM.	DESCRIPTION	CHG'D BY	CHK'D BY	DATE
A	ADDED NOTE #1	JIFC		10-20-67



1- ASSEMBLE (1) SCREW, CAP, HEX. SKT.
#4-40 x 1/4 LG. BEFORE STOCKING PART.

NOTES:-

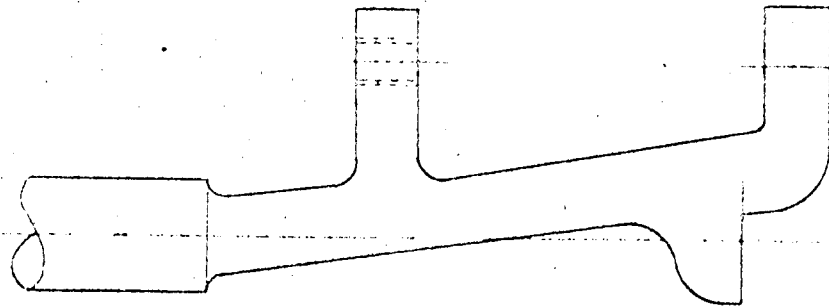
OLD NO. 4-1-18-1

ITEM NO.		REQ'D.		DESCRIPTION				DWG. OR CAT. NO.				
NAME		ACTUATOR FINGER INSERT (IIIWII7)						PROJECT NUMBER				
MATERIAL		STEEL			DRAWN BY		NOM		CHECKED BY		W.F.C.	
HEAT TREATMENT					DATE DRAWN		10-20-67		ENG. APPR.			
FINISH		BLACK OXIDE			SCALE		2-1		MEG. APPR.			
TOLERANCE UNLESS OTHERWISE SPECIFIED												
DECIMAL: 2 PLACES ± .010 3 PLACES ± .005		FRACTIONS: ± 1/64		ANGLES: ±		ALL EDGES BROKEN .005 - .010		DATE OF ISSUE		NOV 27 1967		
THE SINGER COMPANY INDUSTRIAL PRODUCTS DIVISION MECHANIZED SYSTEMS DEPARTMENT												
DRAWING NUMBER												
4-22067-001												

REVISIONS

SYM.	DESCRIPTION	CHK'D BY	CHK'D BY	DATE
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REMOVE SHADED AREA



ITEM NO.		REQ'D.		DESCRIPTION				DWG. OR CAT. NO.	
NAME		FEED DRIVING ROCK SHAFT						PROJECT NUMBER	
MATERIAL		223650				DRAWN BY	NCM	CHECKED BY	J.H.F.C.
HEAT TREATMENT						DATE DRAWN	10/1/64	ENG. APPR.	
FINISH						SCALE	1-1	MFG. APPR.	
TOLERANCE UNLESS OTHERWISE SPECIFIED									
DIMINAL: 2 PLACES $\pm .010$ 3 PLACES $\pm .005$		FRACTIONS: $\pm 1/64$		ANGLES: $\pm$		ALL EDGES BROKEN .005 - .010		DATE OF ISSUE	
USED ON						10/1/64		1920657-000	