

**OPERATING INSTRUCTIONS
AND PARTS BOOK**

SEIKO

BLINDSTITCH MACHINE SERIES

**CM3-21 CM3-11
CM3-L21 SEMI SELF-OILER**

SEIKO SEWING MACHINE CO., LTD.

TOKYO, JAPAN

STANDARD SIZE NEEDLES

- #10 Fine knit rayon
- #15 Fine knit wear
- #20 Fine knit jersey
- #25 Dresses and light fabrics
- #30 For sportswear
- #35 For heavy, hard material and coats
- #40 For extra hard material

If you have any difficulty, do not hesitate to contact dealer who sold you this machine. If unable to obtain satisfaction, please write or phone us direct:-----

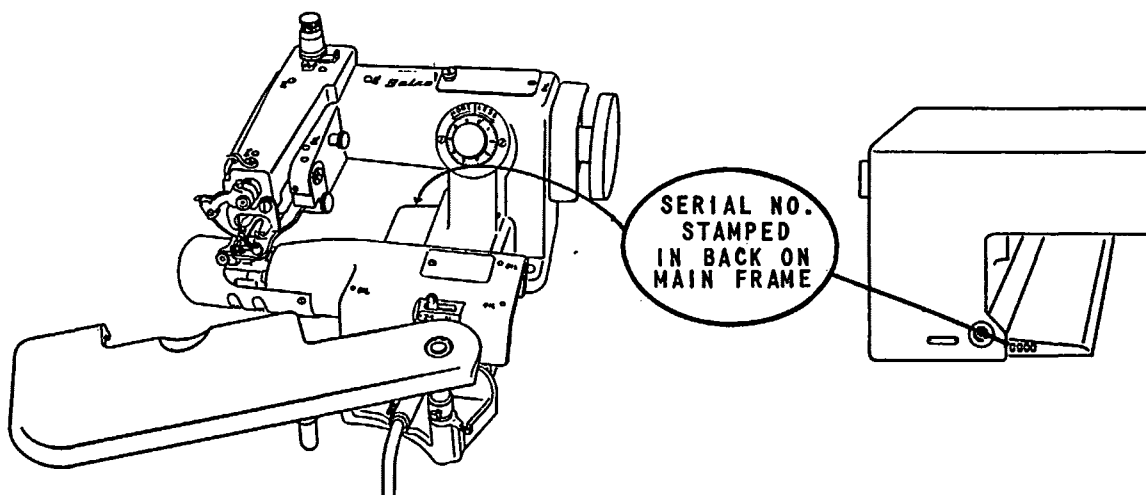


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SEIKO BLINDSTITCH MACHINE MODELS

CM3-21 SERIES: CM3-21L CM3-21M CM3-21H CM3-21K(WITH SKIP STITCH)

CM3-11 SERIES: CM3-11L CM3-11M CM3-11H CM3-11K(NON SKIP STITCH)

CM3-L21 SERIES:CM3-L21L CM3-L21M CM3-L21H CM3-L21K(SKIP STITCH & SEMI-SELF OILER)

CM3-P11 SERIES:CM3-P11L CM3-P11M CM3-P11H CM3-P11K(PORTABLE)

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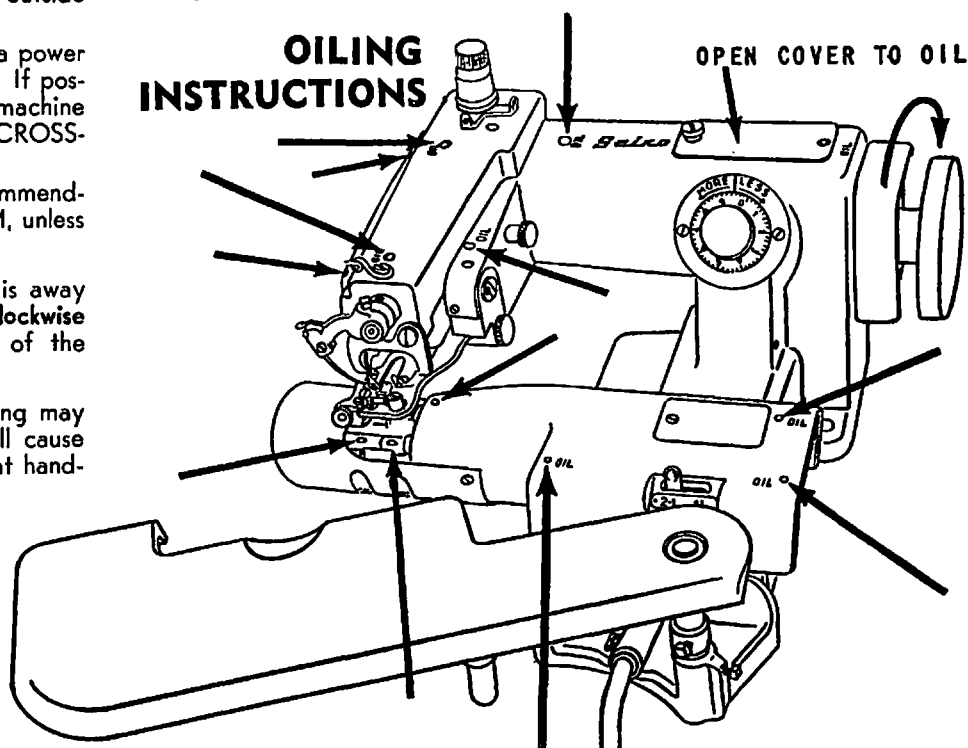
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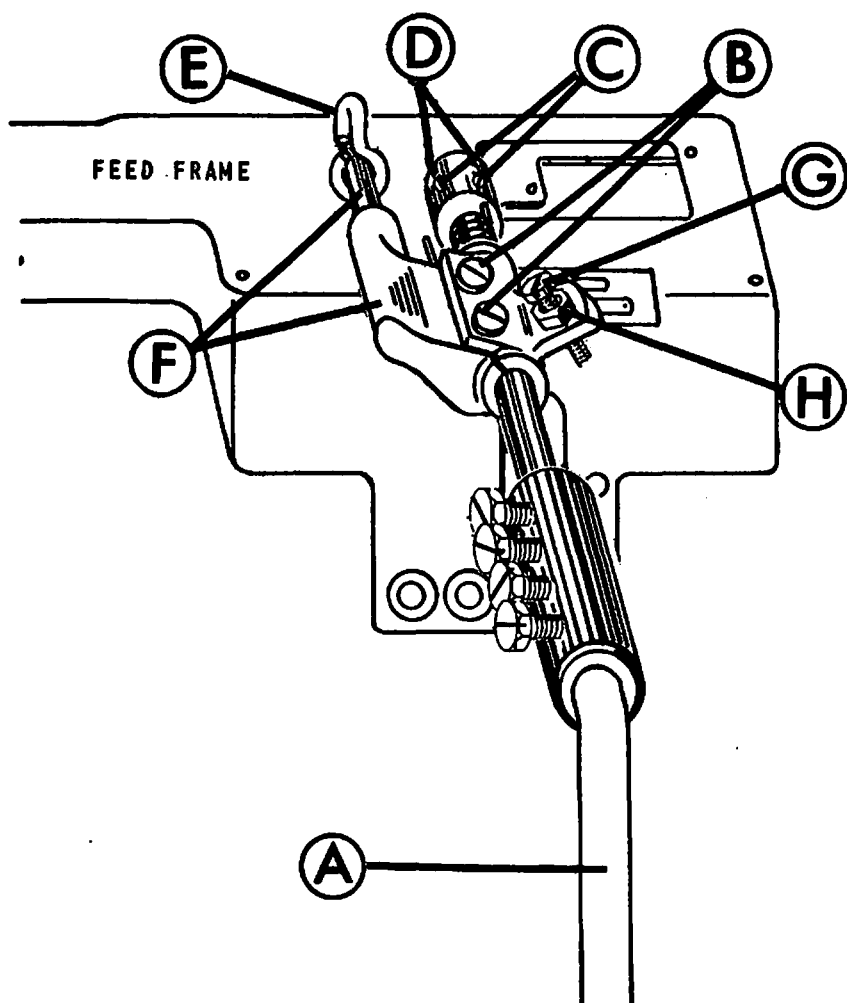
MOUNTING MACHINE

1. Fasten machine to table using felt pad. Tighten screws evenly, turning each a little at a time.
 - a. When an individual motor and clutch unit is employed, it is recommended that the motor be rated at $\frac{1}{3}$ HP and 1725/1750 RPM. On all standard models, use a $3\frac{1}{2}$ " outside diameter pulley. On models intended for alteration, use a $2\frac{1}{2}$ " outside diameter pulley.
 - b. When the machine is mounted on a power table, a 4" pulley should be used. If possible, when using such stands, the machine should be mounted TO AVOID CROSSING THE BELT.
 - c. The maximum machine speed recommended for any installation is 3000 RPM, unless otherwise specified.
2. The handwheel's direction of rotation is away from the operator. It rotates in a clockwise direction when looking at the face of the wheel pulley, as shown by the arrow.
3. Either V-beltting or round leather belting may be used. Excessive tension of belt will cause over-heating and freezing of bearing at hand-wheel.

CAUTION: BEFORE OPERATING MACHINE, LUBRICATE IN ACCORDANCE WITH INSTRUCTIONS. REFER TO OIL CHART.

1. Place a few drops of oil at all points shown on the oiling chart All moving parts MUST be oiled.
2. In production use, the machine should be oiled twice daily





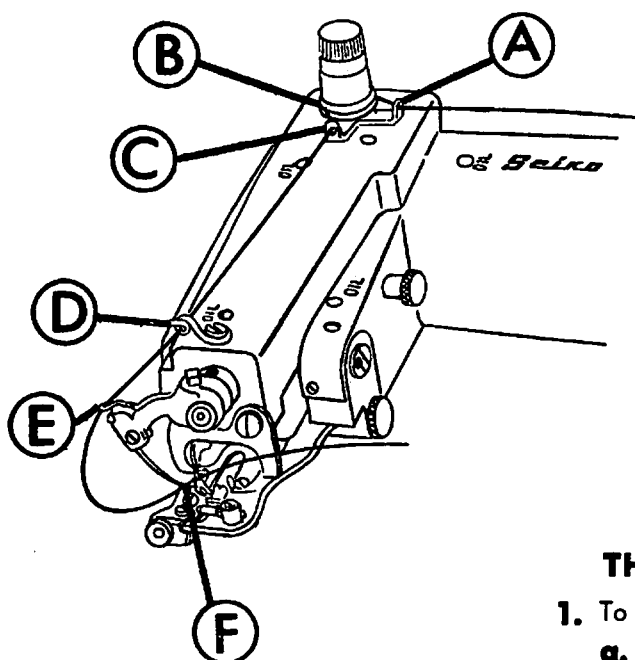
KNEE LIFTER ADJUSTMENT

To adjust Knee Lifter (A), loosen Lift Arm Screws (B) and bring Knee Lifter into position most comfortable for operator. Tighten Screws (B) securely.

This adjustment may require readjusting tension spring.

To adjust tension of spring on Knee Lifter, loosen Collar Screws (C) and wind spring by placing side blade of screw driver in Collar slots (D). Wind tight enough until Knee Lifter (A) swings towards the operator, then tighten Collar Screws securely.

"S" Hook (E) must always have slack between Feed Frame and Lift Arm (F). To do this, first loosen Lock Nut (H) and turn Adjusting Screw (G) left or right until "S" Hook is FREE of Feed Frame and Lift Arm. Hold Screw in place and tighten Lock Nut (H).

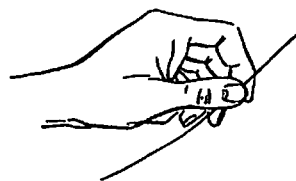


THREADING CHART

1. Use any type thread which is suitable for the fabric being sewn. This includes mercerized, 00, silk and synthetic threads.
2. The thread is passed through rear thread guide (A) then slides between two tension discs (B) through (C) through front thread guide (D) . . . then down through needle clamp hole (E) . . . and entering from the underside of needle hole (F).
3. Leave thread about 2 to 3 inches past needle hole.

THREADING NEEDLE

1. To thread needle at point (F)
 - a. Swing work plate out of way
 - b. Depress cylinder out of way with knee lifter
 - c. Hold thread between index finger and thumb
 - d. End of thread must be stub not feather edge.



RIGHT
Up like this



WRONG
Not like this

ADJUSTING RIB TO NEEDLE

THE MACHINE SHOULD BE CHECKED TO INSURE CORRECT NEEDLE SETTING TO PREVENT DAMAGE TO NEEDLES.

1. Press knee lifter to depress feed frame.
2. Turn hand wheel **CLOCKWISE** until eye of needle is at slot in presser foot shoe (Fig. 1).
3. Slowly release knee lifter. The rib should **JUST TOUCH THE NEEDLE** (Fig. 2).
4. If rib is pressing up against needle (Fig. 3), turn dial toward "**LESS**" until rib just touches needle.
5. If rib is away from needle (Fig. 4), turn dial toward "**MORE**" until rib just touches needle.
6. When needle just touches rib (Fig. 2), machine is set to test.
7. To test machine, when ratio is set 2 to 1 ratio—take single layer of material, place in machine and turn machine by hand. If machine catches once, then does not catch on next stroke, machine is ready to work.
8. Keep dialing "**MORE**" or "**LESS**" until above results are obtained on silk or any thin goods.
9. On heavy goods, it should catch on each stroke of needle.
10. You are now ready to thread machine. Refer to 'threading instructions.

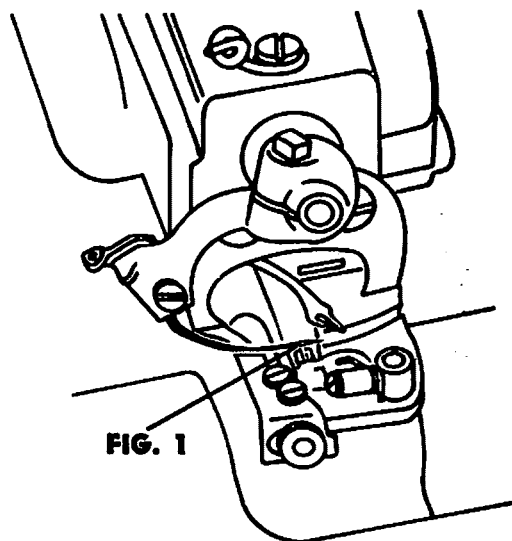


FIG. 1

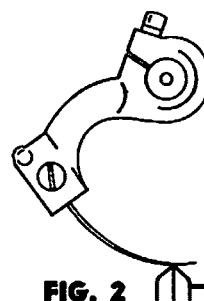


FIG. 2 Rib

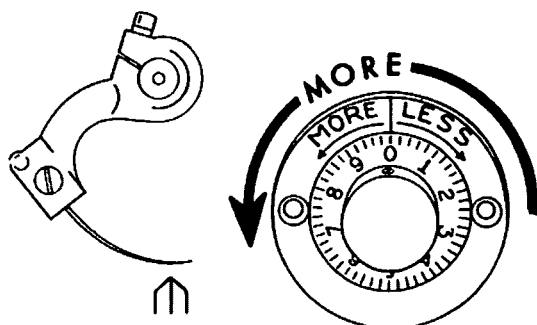


FIG. 4

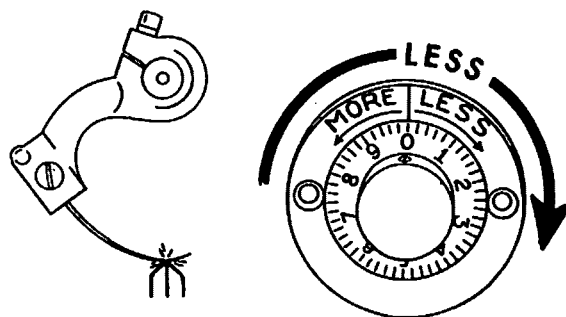


FIG. 3

**TO CHANGE STITCH RATIO,
DEPRESS KNEE LIFTER AND MOVE LEVER TO DESIRED STITCH RATIO**

When set for

2 - 1	catches every other stitch
1 - 1	catches every stitch

IMPORTANT:

Place a piece of thin sample material in machine. Set stitch ratio on 2-to-1. Turn hand wheel clockwise by hand so that needle catches on one stroke and skips a stitch on second stroke.

ON THE SKIP STROKE, stop when the eye of the needle is at the rib (Fig. 1). At this point, the gap between the Compensating Skip Stitch Screw (Fig. 5, A) and the Push Rod (B) should be .018 (C). (In the absence of a gauge, .018 is about 5 times the thickness of average letterhead paper.) This adjustment is made by loosening Lock Nut (F), adjusting screw (A) so gap at (C) is .018. Keep screw in place with screwdriver and secure Lock Nut.

Once this is done, a similar adjustment on Feed Frame Limit Safety Screw (E) should be made. Loosen Lock Nut (D), adjust Safety Screw (E) so that gap (G) between Screw (E) and Main Frame of machine is .018. Hold Screw in place with screwdriver and secure Lock Nut. **THIS ADJUSTMENT IS TO PREVENT OPERATOR FROM MISTAKENLY ADJUSTING RIB TOO HIGH WITH "MORE/LESS" DIAL CAUSING NEEDLE TO STRIKE RIB AND BREAK.**

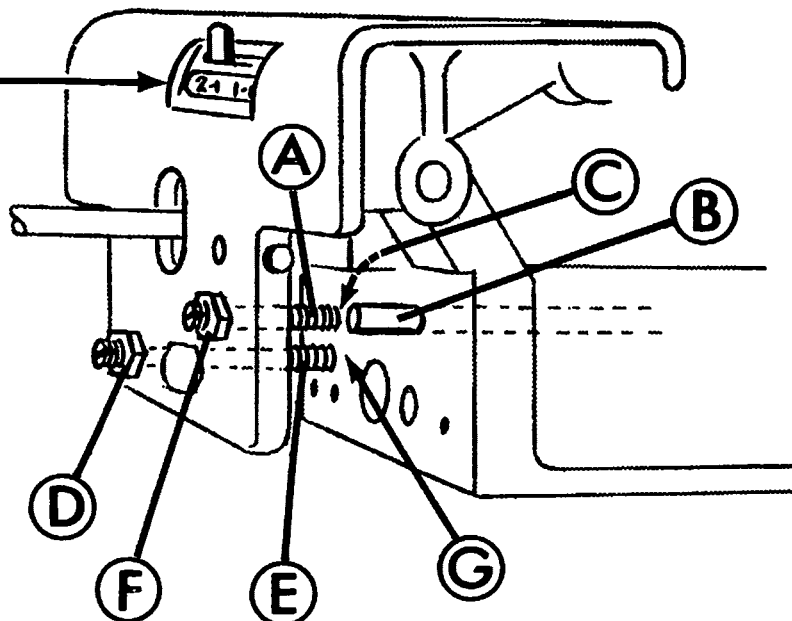


FIG. 5

TESTING NEEDLE

IMPORTANT: First test needle to make sure there is no bur or it is not bent. To check for bur, rub fingernail across point. If needle is bent, it will not rest firmly on needle guide Fig. 6 . (F)

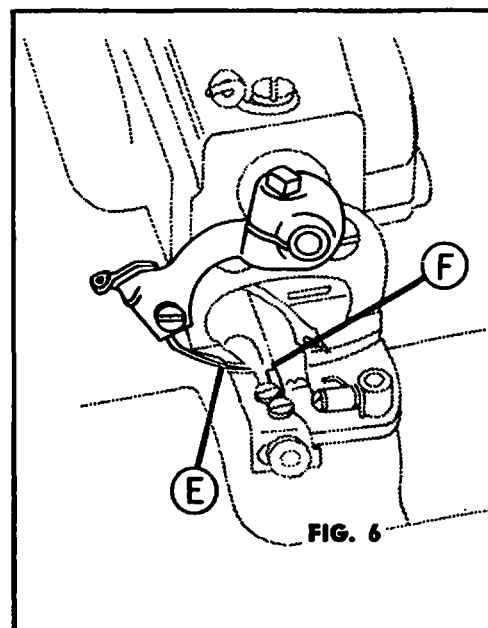
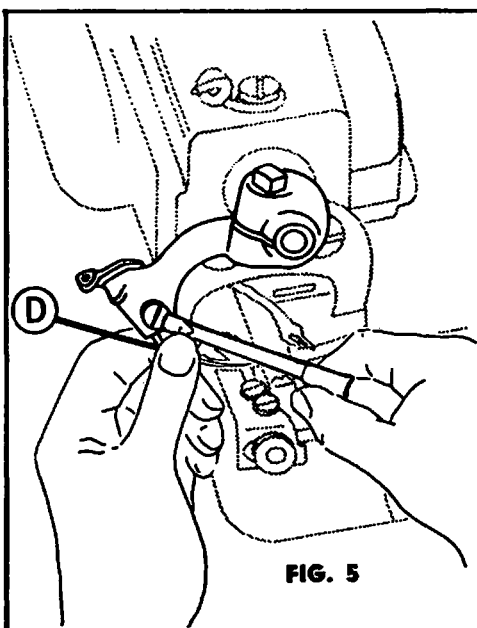
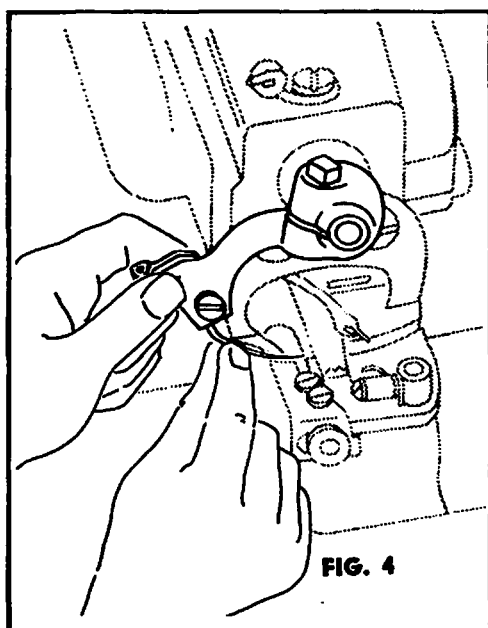
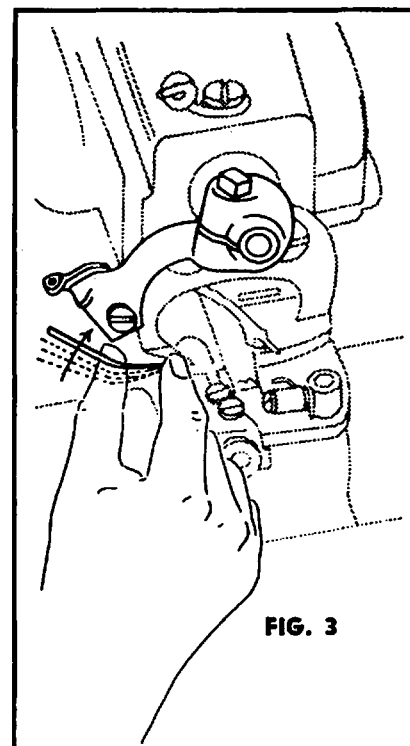
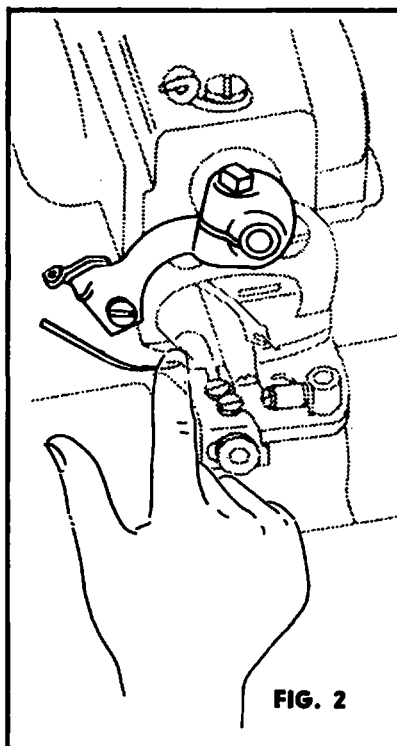
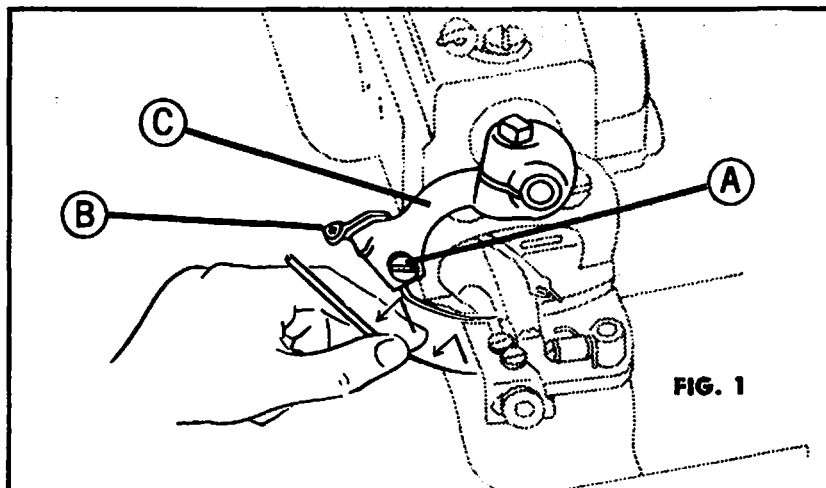
CHANGING NEEDLE

TO REMOVE

1. Loosen screw (A) about $2\frac{1}{2}$ turns until Needle Clamp (B) is loosened from Needle Lever (C) and Needle is free. (Fig. 1)
2. Hold Needle with left hand thumb and index finger, remove by moving away from you and to the left (Fig. 1). It should come out effortlessly. DO NOT FORCE.

INSERTING NEW NEEDLE

1. Place good new needle in groove of presserfoot and hold in place with right index finger (Fig. 2). With tilting motion of right thumb (Fig. 3), tilt shank of needle to right in between Needle Clamp (B) and Needle Lever (C) and into groove of Needle Lever.
2. With left index finger and thumb (Fig. 4), bring Needle Clamp and Lever together making sure Needle is setting in Needle Lever Groove. While holding together with left hand, draw needle up as high as possible with right hand. Then with right hand, tighten screw (A) with screw driver.
3. Hold Needle at point (D) (Fig. 5) with left thumb and index finger, loosen screw (A) a quarter turn, then push Needle all the way up the Needle Lever (DO NOT FORCE) and secure screw (A) firmly.
4. EYE of Needle should be at point (E) (Fig. 6) when Needle Lever (C) is at its highest point.



HOW TO SEW

1. Turn hand wheel slowly clockwise until needle reaches high point (A).
2. With hands 12 inches or so apart (Fig. 1) hold hem firmly. Depress knee lifter, place hem in machine parallel with, and up under presser foot. (D)
3. Place edge of hem in slot of shoe (B) and at edge of gauge (C).
4. Start sewing. **IMPORTANT:** Keep edge of hem lightly, but firmly against gauge, keep material parallel to gauge by **KEEPING EYES ON GAUGE ONLY . . . NOT ON NEEDLE OR SEWING.**
5. To remove . . . make sure needle is again at high point. Depress knee lifter and pull work **AWAY FROM YOU**, straight back to break thread.

IMPORTANT—DO NOT TUG MATERIAL BACK AND FORTH OR IT WILL UNRAVEL THE STITCH.

START SEWING

1. On thin goods or ribbon cloth guide Fig. 1, (C), should be set almost at extreme right side of machine and should obtain results shown in Fig. 2. (F).
2. For heavier goods, bring cloth guide to the left as necessary.
3. Do not pull material to help feeding, do not hold material back, just hold firm but lightly.
4. To remove finished work, **MAKE SURE NEEDLE IS AT HIGH POINT FREE OF GARMENT.**

TENSION

If material puckers, loosen tension.

If thread is loose, make sure thread is between tension, discs then tighten accordingly. Do not hesitate to turn tension nut several times as needed.

On thin goods, a light tension is required. On heavier goods, a tighter tension is necessary.

IMPORTANT: Unlike a regular machine, this machine requires very little tension.

UNRAVELING STITCH

To unravel the stitching, turn hand wheel **CLOCK-WISE** to high point of needle. Continue clockwise until thread is off looper. Then **COUNTERCLOCK-WISE** to threading position.

Depress knee lifter and remove garment . . . thread will unravel.

To unravel stitch on finished garment, start where stitching finished, break straight thread and unravel backwards, **NOT FROM DIRECTION OF SEWING.**

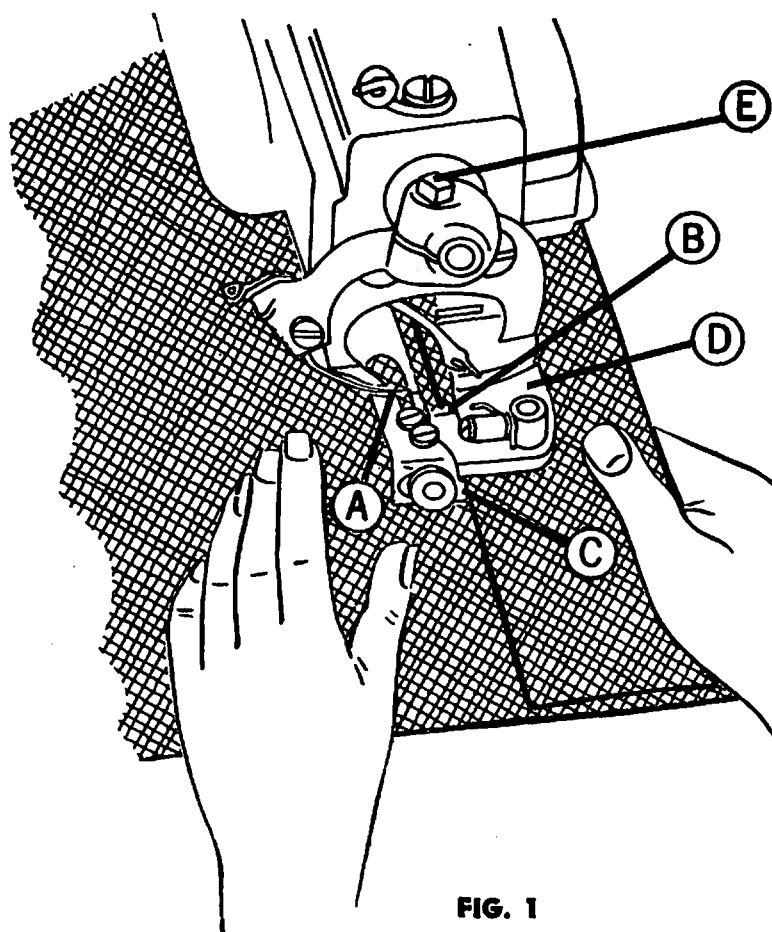
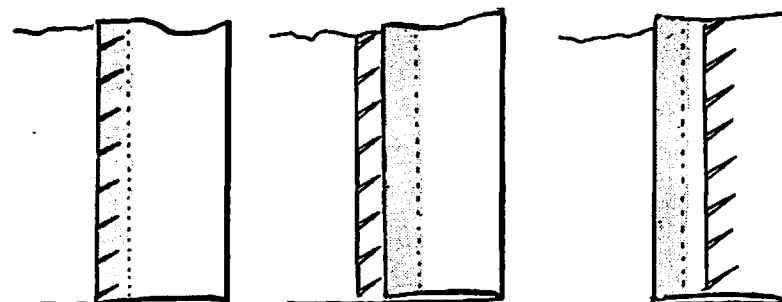


FIG. 1

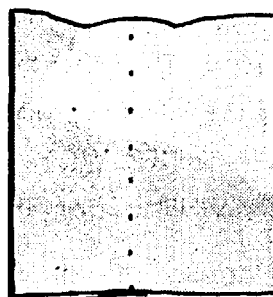
PROPER STITCHING (Fig. 2)



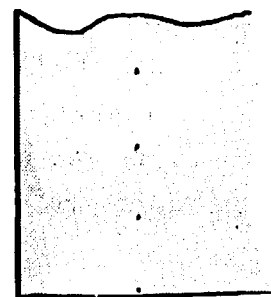
F. Proper stitching.

G. Material running off. Bring gauge over a little to left.

H. Gauge too far to left. Move gauge over to right.



I. If catching each time on light fabric, turn dial to "LESS" until it looks like J.



J. Catches on thin fabric every other time. (Provided needle is good.)

PROPER SETTING FOR RIB CONNECTION

Turn Handwheel clockwise until Needle is on the DOWN stroke. When Needle reaches right hand edge of Needle Guide "A" (Fig. 1), Rib "B" should STOP and SHOULD NOT MOVE UNTIL NEEDLE POINT PASSES OVER RIB TO OTHER SIDE OF PRESSERFOOT OPENING "C".

If Rib does move, make the following adjustment: First loosen Screw "A" (Fig. 2). Bring Needle Point back to right hand edge of Needle Guide. Then loosen screw "B", keeping screwdriver in place. Move Cam (R-1062) forward or backward until Rib is at the STOP position, **holding Needle in Position with handwheel while performing this operation.** Tighten Screw "B". Test accuracy of adjustment by repeating operation outlined in first paragraph. If still not correct, readjust by loosening screw "B" again, change angle of Cam slightly forward or backward as needed and retighten Screw "B". When adjusted satisfactorily, be sure to TIGHTEN BOTH SCREWS "A" & "B" before putting machine into operation.

TO SET RIB SHAFT

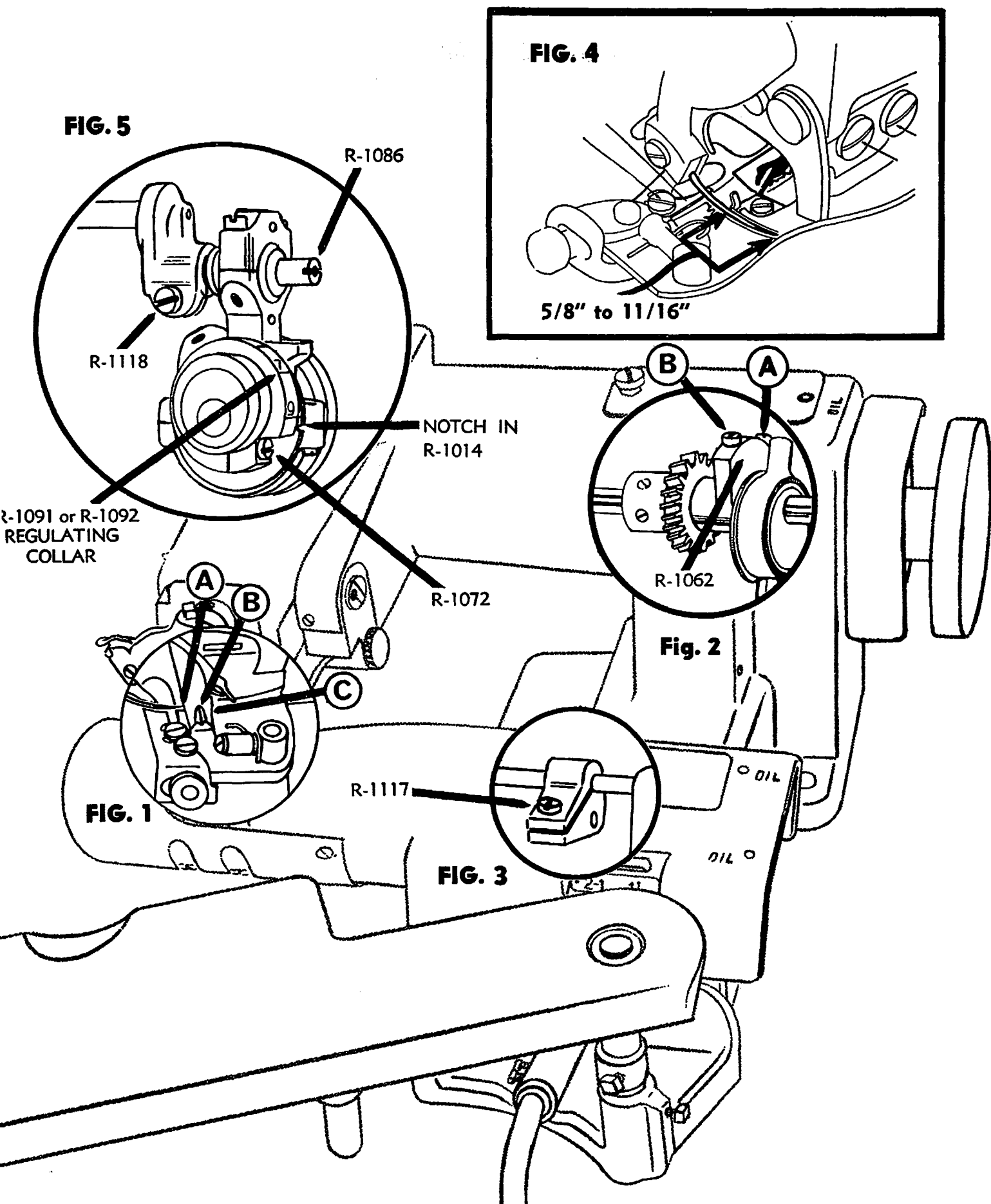
When needle is in same position as in Fig. 1, loosen Screw (R-1117) in Fig. 3, and turn Rib to desired position. Secure Screw. (See page 9 for closer detail of Rib Shaft if needed.)

NEEDLE STROKE

Turn Handwheel clockwise, bringing Needle to end of stroke at the right side. At this point, the Needle tip should be 5/8" to 11/16" from the right side of Presserfoot opening (Fig. 4). To attain this, loosen Eccentric Ball Screw R-1118 (Fig. 5) and turn Eccentric Ball (R-1086) until Needle reaches desired position.

REGULATING LENGTH OF STITCH

Loosen Screw R-1072 (Fig. 5) in Stitch Regulating Collar and turn until desired number is by Indicator Notch in R-1014. The larger the number by the notch, the longer the stitch. The smaller the number by the notch, the shorter the stitch. WHEN MAKING STITCH LONGER OR SHORTER, CHECK FEEDER WITH LOOPER AND PRESSERFOOT AS IT CHANGES POSITION OF FEEDER WHEN CHANGING LENGTH OF STITCH



ADJUSTING LOOPER

1. (FIG. 1) Loosen screw (A) to take out Looper (B) — (Part #R-2200).
2. To put Looper in, be sure you put Looper in until shoulder of Looper touches shoulder of Looper Rod (C) at point (D).
3. (FIG. 2) Turn Handwheel by hand, carefully and slowly. Looper must clear the Chain-Off Pin (E) and clear needle, being just above the needle about the thickness of a sheet of paper at point (G). The long prong of the Looper should be about $3/32''$ from the needle when needle is at the limit of stroke.
4. Should Looper touch needle or Presser Foot at point (G), loosen screws (H) and use wide blade of screwdriver in slot of Eccentric Block at (J). If Looper is hitting needle, turn Eccentric Block clockwise. If Looper is too far above needle, turn Eccentric Block counterclockwise.
5. (FIG. 3) If Looper touches Presser Foot or needle at point (K) and upper part (long prong) of Looper at point (L), turn Eccentric Block clockwise.
6. (FIG. 3 & FIG. 1) Should Looper be touching at point (K) and needle touching short prong of Looper at point (L), then you must loosen nut (M) and screws (N). Then turn Looper Rod at point (C) downwards, which will clear the short prong of your Looper at point (L) and raise the Looper at point (K).
7. (FIG. 2 & FIG. 3) By turning Eccentric Block (J) clockwise or counterclockwise, it will raise or lower your Looper at points (K) and (L).

With ECCENTRIC BLOCK, you RAISE or LOWER Looper on BOTH SIDES.

TURNING LOOPER ROD, you RAISE one side and you LOWER the other side.

8. (FIG. 3 & FIG. 2) For Looper To clear Chain-Off Pin (Q) and Presser Foot at (R), Eccentric Block (J) can be moved from left to right by loosening screws (H). This will give you the desired clearance.
9. (FIG. 1 & FIG. 2) If this is necessary, be sure that Looper Rod Carrier Pin (S) is flush against Looper Rod Carrier (T) and does not have any play left or right. Secure by re-tightening screws (H).
10. (FIG. 4) When Needle Guide (U) (part #R-1238) becomes grooved or broken, remove and put in a new one. NOTE: When replacing Needle Guide, slide "U" of Needle Guide into undercut neck of screw (V). Hold together and screw on Presser Foot. Just before tightening firmly, push Needle Guide securely towards screw, hold in position and tighten Needle Guide Screw (V).
11. (FIG. 5) Feeder should be below Presser Foot a maximum of $3/32''$ at point (W) and a hair less at point (X).

(FIG. 4) BE SURE LOOPER CLEARS FEEDER AT POINT (Y).

BE DOUBLY SURE FEEDER SCREWS (Z) ARE SECURED FIRMLY.

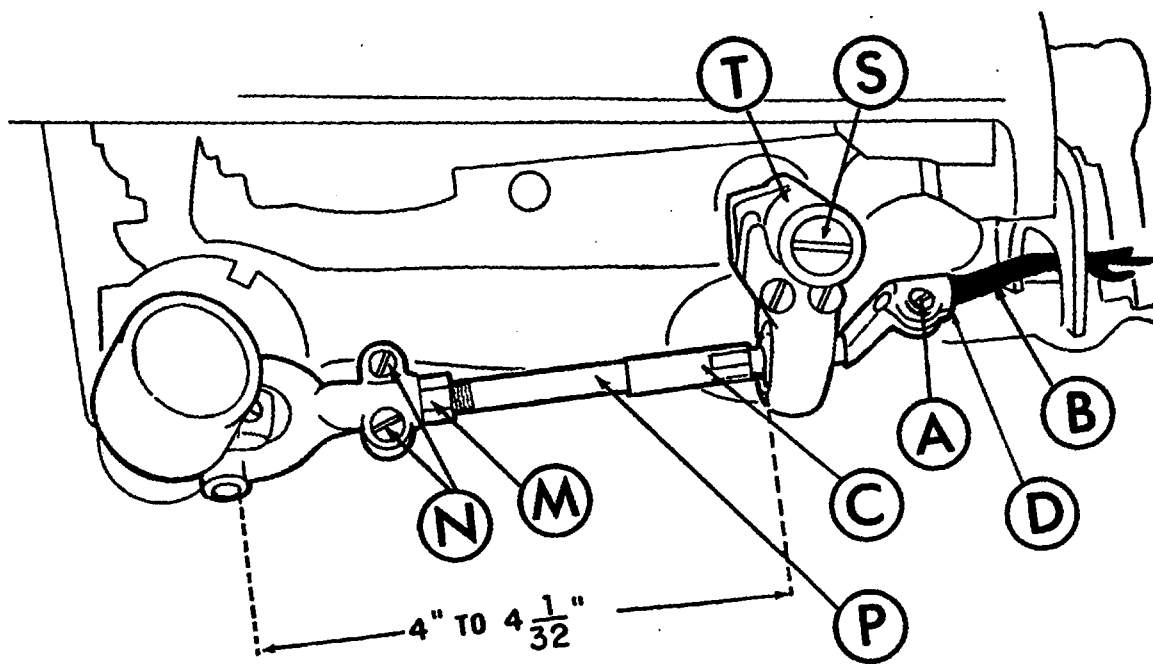


FIG. 1

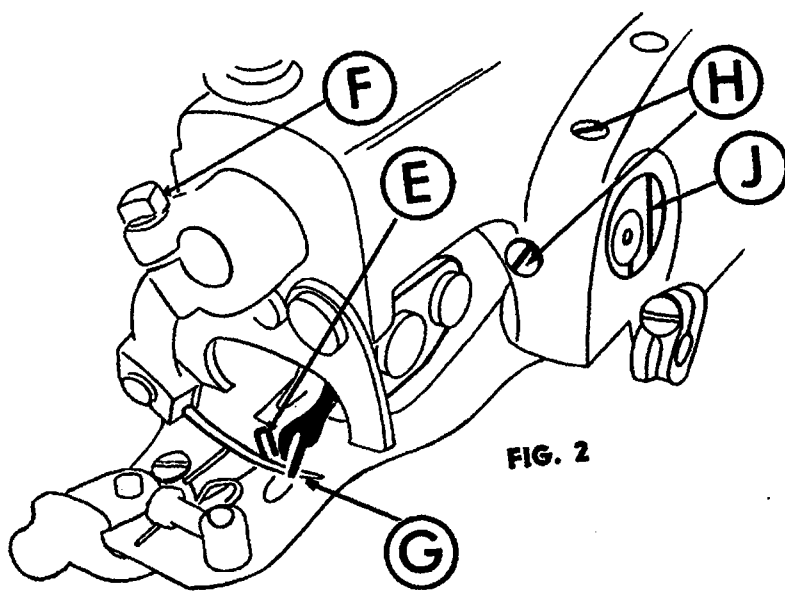


FIG. 2

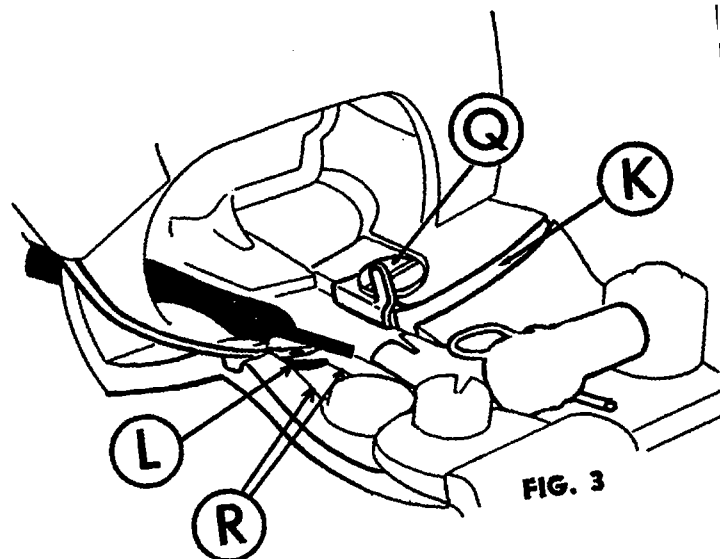


FIG. 3

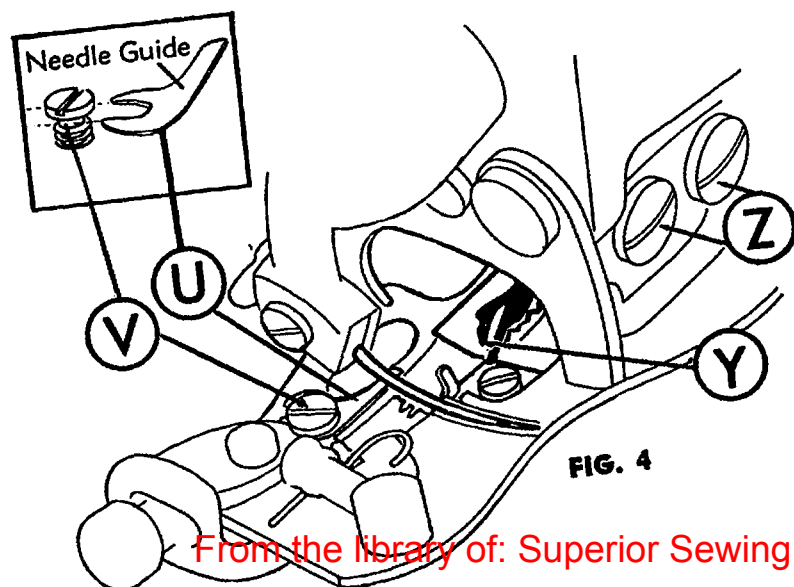


FIG. 4

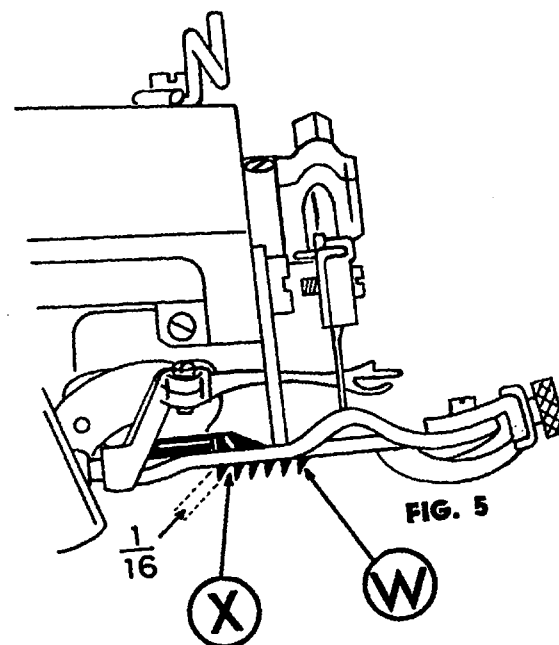


FIG. 5

RIB FOR VARIOUS MODELS AS INDICATED

Model	Rib	Model	Rib	Model	Rib	Model	Rib
CM3-21L	R-6036	CM3-21M	R-6010	CM3-21H	R-6015	CM3-21K	R-6032
CM3-11L		CM3-11M		CM3-11H		CM3-11K	
CM3-L21L		CM3-L21M		CM3-L21H		CM3-L21K	
CM3-P11L		CM3-P11M		CM3-P11H		CM3-P11K	

FEED FRAME (CM3-21)

GROUP 1

R-1205 Window Plate
 R-1030 Screw - Window Plate
 R-1087 Rib Shaft Bushing - Left
 R-1088 Rib Shaft Bushing - Right
 R-1069 Set Screw — Platten Bracket Pivot Stud
 R-1159 Screw - Spring Link Lock
 R-1104 Screw - Feed Frame Limit
 R-1146 Nut - Feed Frame Limit Screw Lock

GROUP 2

R-1029 Nut - Skip Stitch Compensating
 R-1105 Screw - Skip Stitch Compensating
 R-1202 Skip Regulating
 R-1028 Spring Washer - Skip Regulating Lever Stud
 R-1203 Stud - Skip Regulating Lever
 R-1332 Screw - Skip Regulating Lever Stud-Lock

GROUP 3

RIB — See Chart Top of Page

R-1163 Crank - Rib Shaft
 R-1117 Screw - Rib Shaft Crank - Clamp
 R-1164 Stud - Rib Shaft Crank
 R-1161 Rib Shaft Collar - Left
 R-1076 Screw - Rib Shaft Collar-Clamp
 R-1162 Rib Shaft Collar - Right
 R-1076 Screw - Rib Shaft Collar-Clamp

GROUP 4

R-1166 Stud - Platten Bracket Pivot
 R-2451 Platten Bracket - Left
 R-2450 Platten Bracket - Right
 R-2400 Platten - Left
 R-2401 Platten - Right
 R-1244 Screw - Platten to Bracket - Attaching
 R-1167 Nut - Platten to Bracket Attaching Screw
 R-1168 Nut - Platten Bracket Limit Screw-Lock
 R-1114 Screw - Platten Bracket Limit
 R-1171 Spring - Platten Bracket
 R-1021 Spacer - Platten Bracket

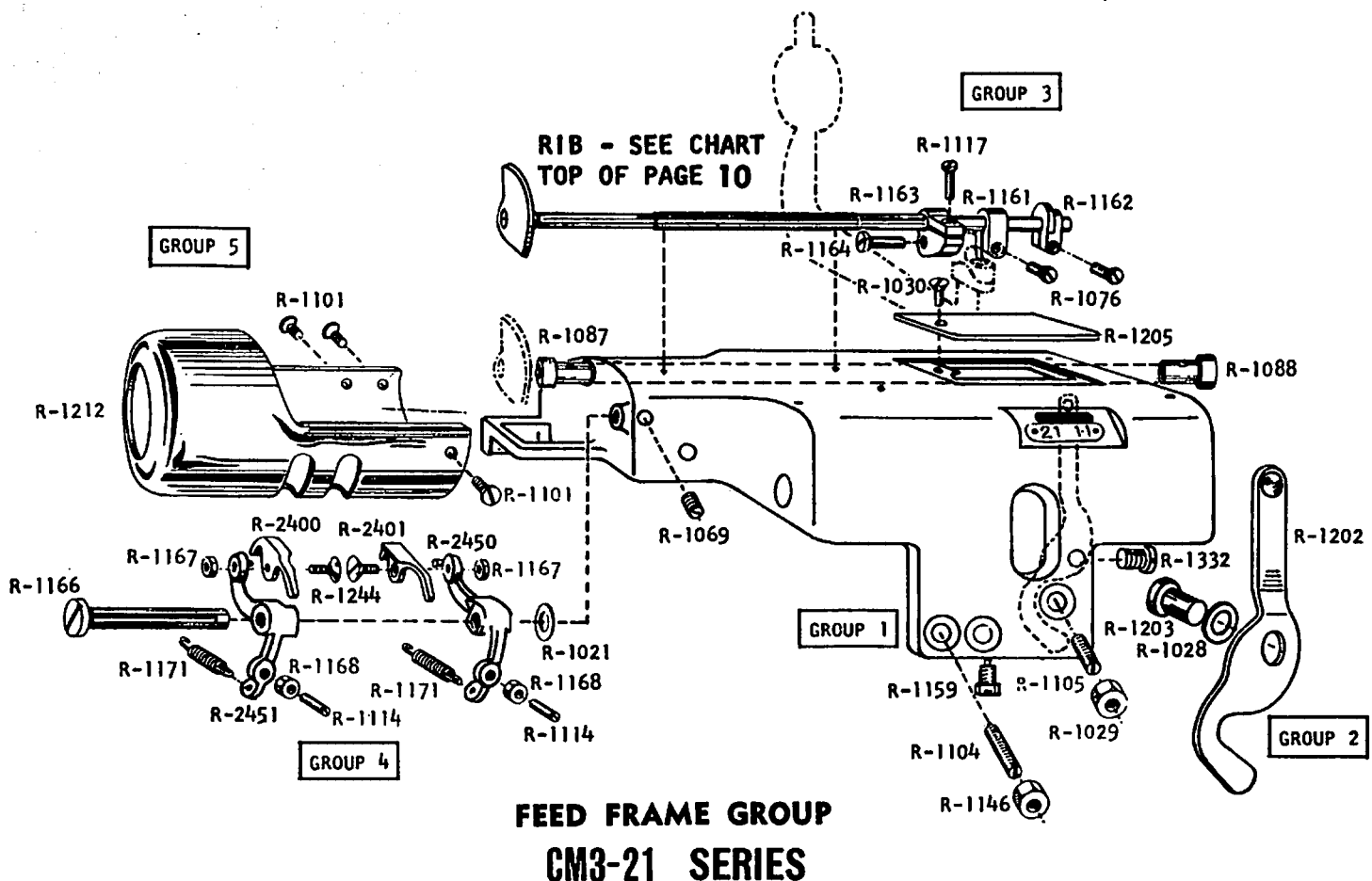
GROUP 5

R-1212 Cylinder
 R-1101 Screw - Cylinder

IMPORTANT

For Seiko Semi-Self-Oiler
Models CM3-L21 Series

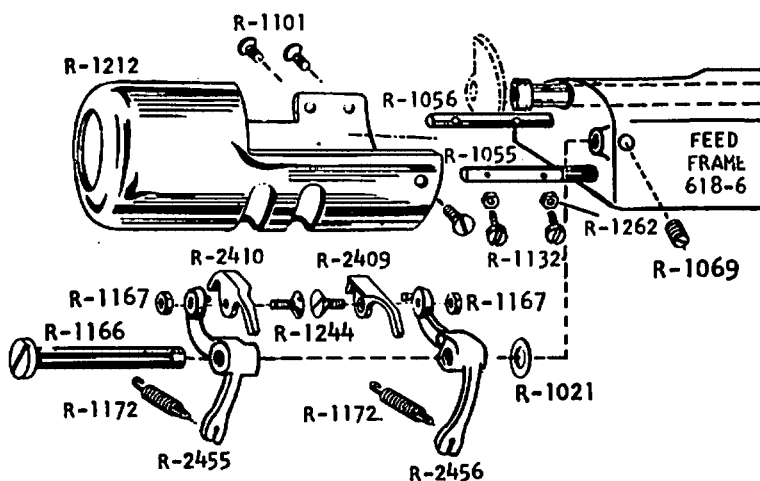
Use same part numbers as
CM3-21, but add prefix "L"



IMPORTANT

Ordinarily, machines have this narrow cylinder, but thicker cylinder No. R-1211 as illustrated above is installed on order without any additional charge.

NARROW CYLINDER MACHINES CM3-21 SERIES



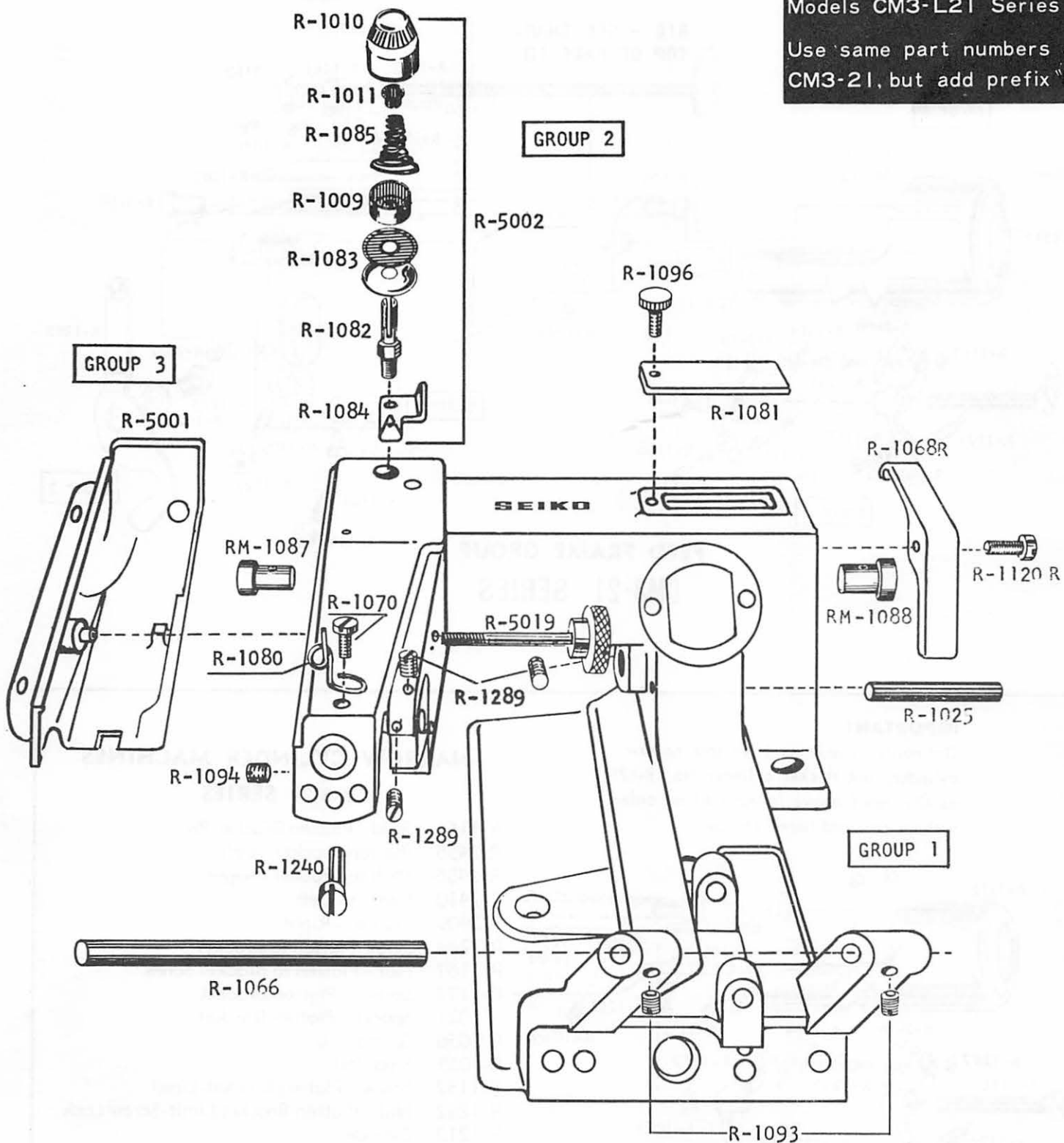
R-1166	Stud - Platten Bracket Pivot
R-2455	Platten Bracket - Left
R-2456	Platten Bracket - Right
R-2410	Platten - Left
R-2409	Platten - Right
R-1244	Screw Platten to Bracket
R-1167	Nut - Platten to Bracket Screw
R-1172	Spring - Platten Bracket
R-1021	Spacer - Platten Bracket
R-1056	Spring Post
R-1055	Stop Post
R-1132	Screw - Platten Bracket-Limit
R-1262	Nut - Platten Bracket Limit-Screw Lock
R-1212	Cylinder
R-1101	Screws - Cylinder
R-1069	Set Screw — Platten Bracket Pivot Stud

MAIN FRAME GROUP

IMPORTANT

For Seiko Semi-Self-Oiler
Models CM3-L21 Series

Use same part numbers as
CM3-21, but add prefix "L"



MAIN FRAME GROUP

GROUP 1

- R-1066 Shaft - Feed Frame Rocker
- R-1093 Set Screw - Feed Frame Shaft
- R-1025 Pin - Regulating Fork-Pivot

RM-1088 Main Shaft Bushing - Right

RM-1087 Main Shaft Bushing - Left

R-1068R Belt Guard

R-1120R Set Screw - Belt Guard

R-1081 Cover Plate

R-1096 Screw - Cover Plate

R-1240 Eccentric Pin

R-1094 Screw - Eccentric Pin Set

R-1289 Screw - Eccentric Block

GROUP 2

R-5002 Tension Assembly, Complete

R-1084 Thread Guide

R-1082 Tension Post

R-1083 Tension Discs

R-1009 Cover

R-1085 Spring

R-1011 Ratchet

R-1010 Nut

R-1080 Front Thread Guide

R-1070 Screw - Front Thread Guide

GROUP 3

R-5001 Side Cover

R-5019 Screw - Side Cover

MAIN SHAFT GROUP

GROUP 1

R-1044 Main Shaft

R-1129 Gear - Skip Stitch Drive

R-1069 Screw - Skip Stitch Drive Gear Set

GROUP 2

RT-5003 Group 2, Fitted & Lapped (CM3-21)

R-1015 Rib Connection Lever

R-1071 Screw - Rib Connecting Lever Clamp

R-1062 Rib Connection Eccentric

R-1120 Screw - Rib Lever Eccentric

GROUP 3

R-1043 Handwheel

R-1121 Screw - Handwheel Set (Cone Point)

R-1069 Screw - Handwheel Set

GROUP 4

RT-5004 Group 4, Fitted and Lapped

R-1014 Needle and Feed Eccentric

R-1331 Set Screw - (Cone Point) Feed Eccentric

R-1331A Screw - (Flat) Eccentric Set-Lock

R-1013 Needle Shaft and Feed Connection

R-1086 Eccentric Ball Stud

R-1072 Screw - Needle Connection

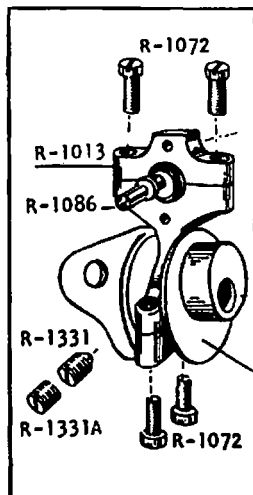
GROUP 5

R-1134 Eccentric Ball Guard

R-1132 Screw - Eccentric Ball Guard

GROUP 4

RT-5004 FITTED-LAPPED COMPLETE

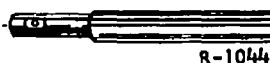


GROUP 5

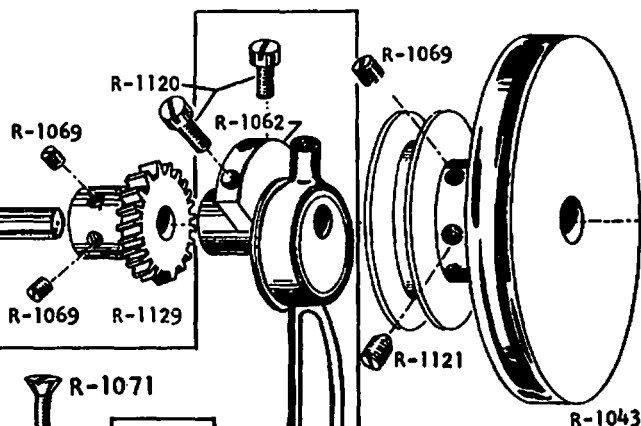


MAIN SHAFT GROUP

GROUP 1



RT-5003 FOR CM3-21 SERIES

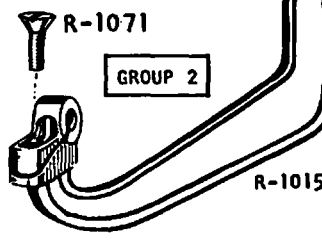


IMPORTANT

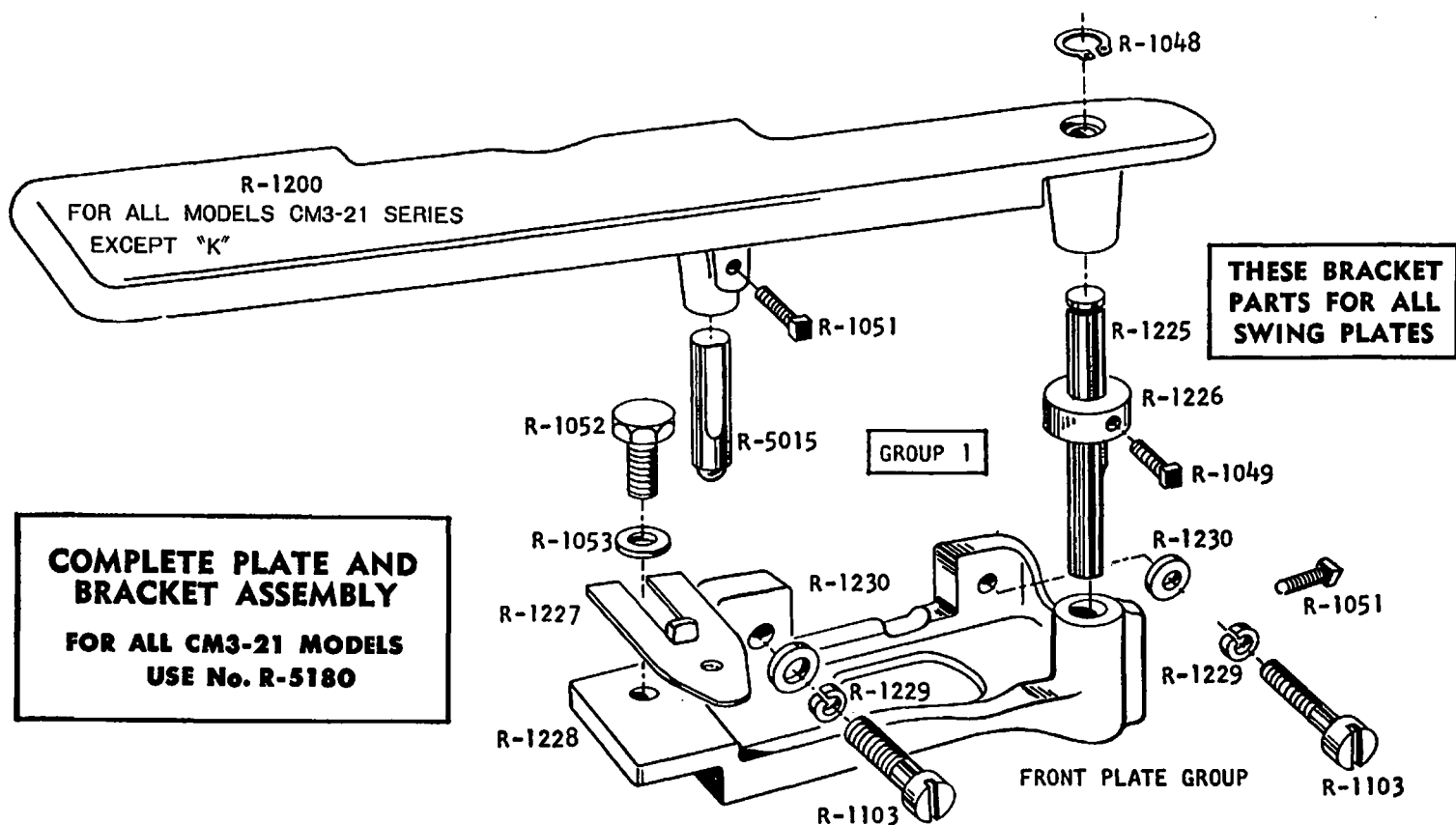
For Seiko Semi-Self-Oiler Models CM3-L21 Series

Use same part numbers as CM3-21, but add prefix "L"

GROUP 2



GROUP 3



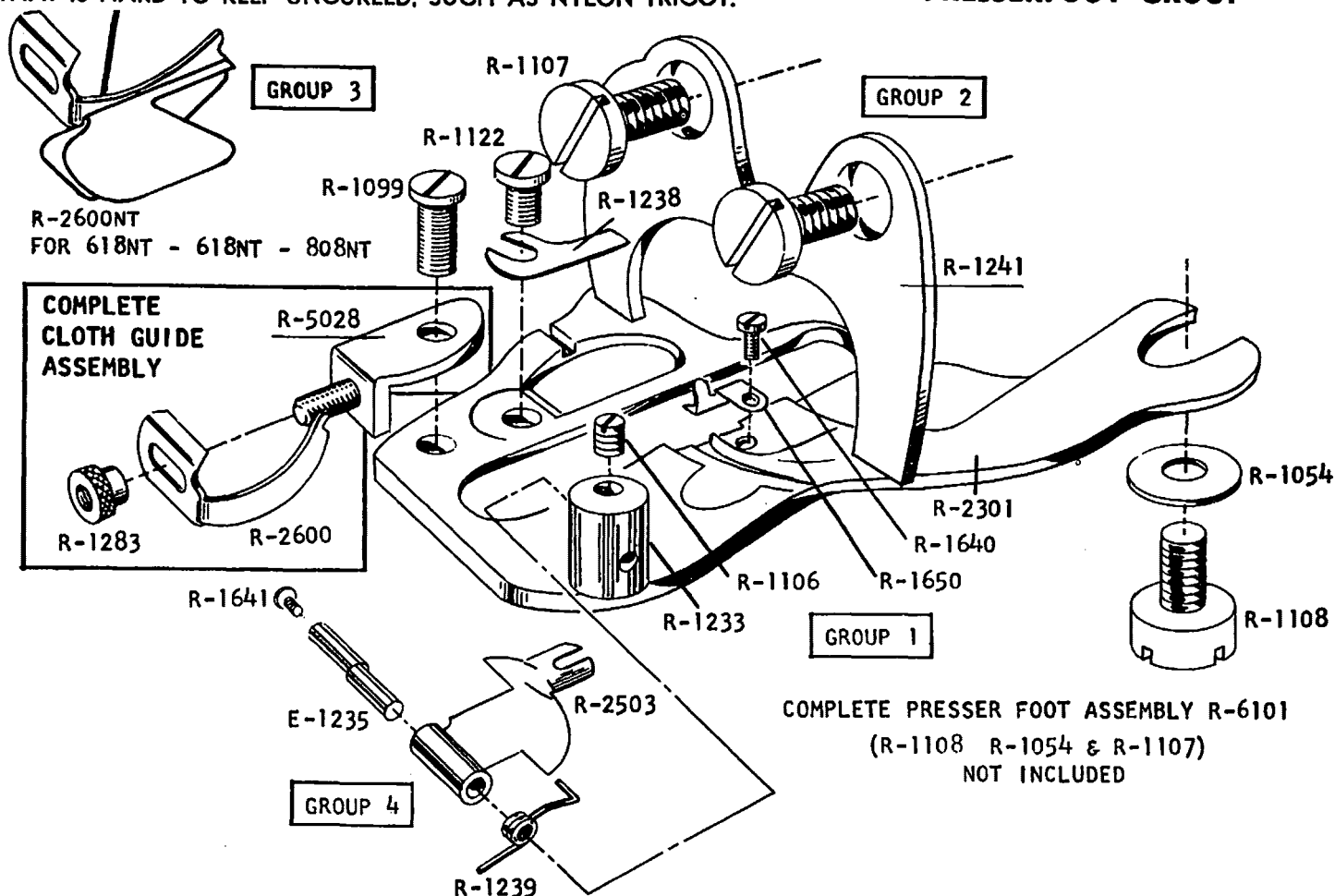
FRONT PLATE GROUP AND SUPPORT BRACKETS

GROUP 1

- R-5180 Complete Plate and Bracket Assembly (618 and 808)
- R-5180-6 Complete Plate and Bracket Assembly (618-6 Series)
- R-1200 Swing Plate (618 and 808)
- R-1200-6 Swing Plate (618-6 Series)
- R-5015 Support Shaft Assembly
- R-1051 Screw - Pivot Pin-Lock
- R-1228 Bracket - Swing Plate-Support
- R-1052 Screw - Stop Plate
- R-1053 Washer - Stop Plate Screw
- R-1227 Stop Plate
- R-1230 Washers (Flat) - Swing Plate Support Bracket Screw
- R-1229 Washers (Lock) - Swing Plate Support Bracket Screw
- R-1103 Screw - Swing Plate Support Bracket
- R-1230 Washer (Flat) - Swing Plate Support Bracket Screw
- R-1229 Washer (Lock) - Swing Plate Support Bracket Screw
- R-1103 Screw - Swing Plate Support Bracket
- R-1225 Pin - Swing Plate Pivot
- R-1048 Retaining Ring - Swing Plate Pivot Pin
- R-1226 Collar - Swing Plate Pivot Pin
- R-1049 Set Screw - Swing Plate Pivot Pin Collar
- R-1051 Screw - Swing Plate Pivot Pin-Lock

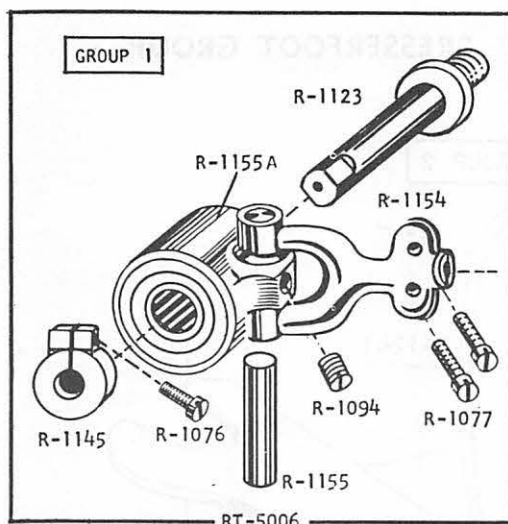
SPECIAL GUIDE AND GAUGE WHERE NECESSARY FOR MATERIAL THAT IS HARD TO KEEP UNCURLD, SUCH AS NYLON TRICOT.

PRESSERFOOT GROUP

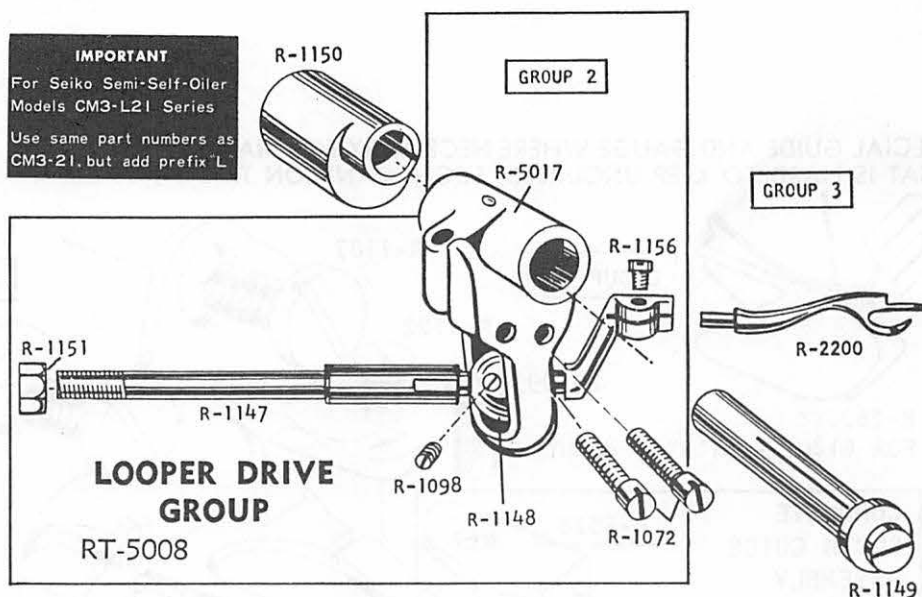


Model	Presser foot completefassy.	Rib	Shoe	Cloth guide	Cylinder
L	44A	6036	49B	2600	1212
M	44C	6010	49C	2600	1212
H	44C	6015	2506	2600	NON
K	44C	6032	49C	2600	1212

LOOPER ROD FORK SLEEVE ASSEMBLY — RT5006



IMPORTANT
For Seiko Semi-Self-Oiler
Models CM3-L21 Series
Use same part numbers as
CM3-21, but add prefix "L"



GROUP 1

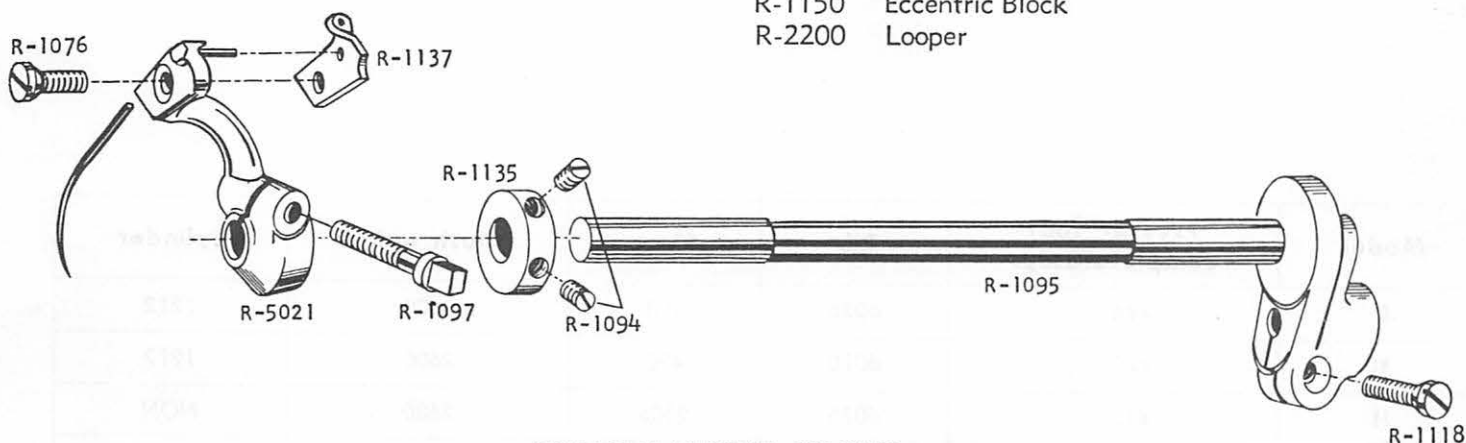
- RT-5006 Looper Rod Fork and Sleeve Assembly
- R-1154 Looper Rod Fork
- R-1155A Looper Rod Sleeve
- R-1155 Pin - Fork and Sleeve
- R-1094 Set Screw - Fork and Sleeve Pin
- R-1123 Stud - Looper Rod Sleeve
- R-1145 Collar - Sleeve Stud
- R-1076 Screw - Stud Collar
- R-1077 Screw - Looper Rod Fork-Clamp

GROUP 2

- RT-5008 Looper Rod and Carrier Complete (CM3-21)
- R-5017 Looper Rod Carrier
- R-1148 Looper Rod Ball
- R-1098 Set Screw - Looper Rod Ball
- R-1147 Looper Rod
- R-1151 Nut - Looper Rod-Lock
- R-1156 Screw - Looper Clamp
- R-1072 Screw - Looper Rod Carrier-Clamp

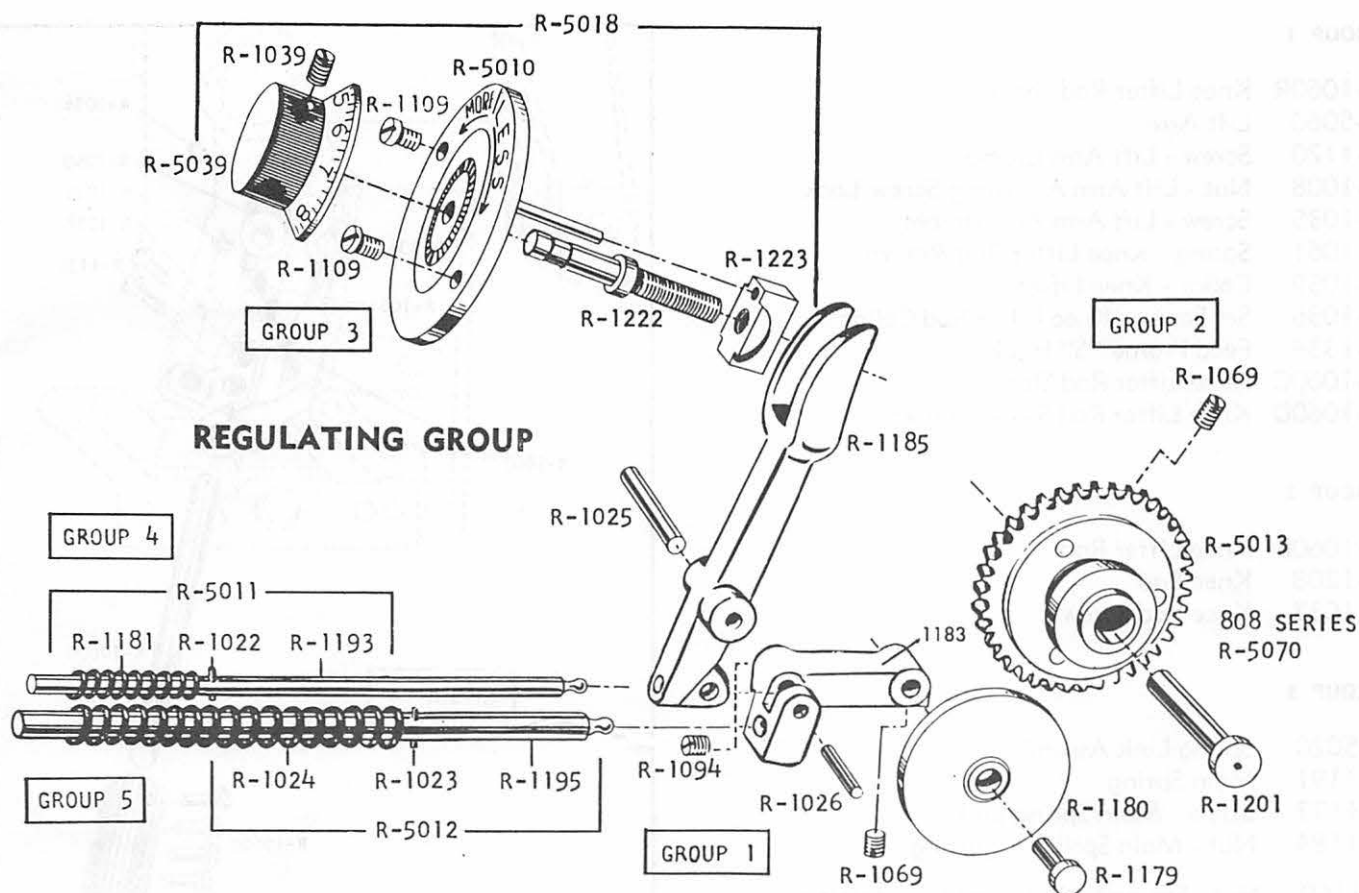
GROUP 3

- R-1149 Stud - Looper Rod Carrier
- R-1150 Eccentric Block
- R-2200 Looper



NEEDLE DRIVE GROUP

- R-5021 Needle Lever
- R-1097 Screw - Needle Lever Clamp
- R-1137 Needle Clamp
- R-1076 Screw - Needle Clamp
- R-1095 Needle Shaft
- R-1118 Screw - Eccentric Ball Clamp
- R-1135 Collar - Needle Shaft
- R-1094 Set Screw - Needle Shaft Collar



GROUP 1

R-1183 Support Arm - Cam Roller - CM3-21 Series
 R-1185 Regulating Fork
 R-1025 Pin - Regulating Fork-Pivot
 R-1026 Pin - Roller Support Arm-Pivot
 R-1094 Screw - Roller Support Arm Pivot Pin-Set
 R-1180 Cam Roller
 R-1179 Pin - Cam Roller Support
 R-1069 Screw - Cam Roller Support Pin-Set

GROUP 2

R-5013 Skip Eccentric Gear Assembly (CM3-21 Series)
 R-1201 Pin - Skip Eccentric Gear
 R-1069 Screw - Skip Eccentric Gear

GROUP 3

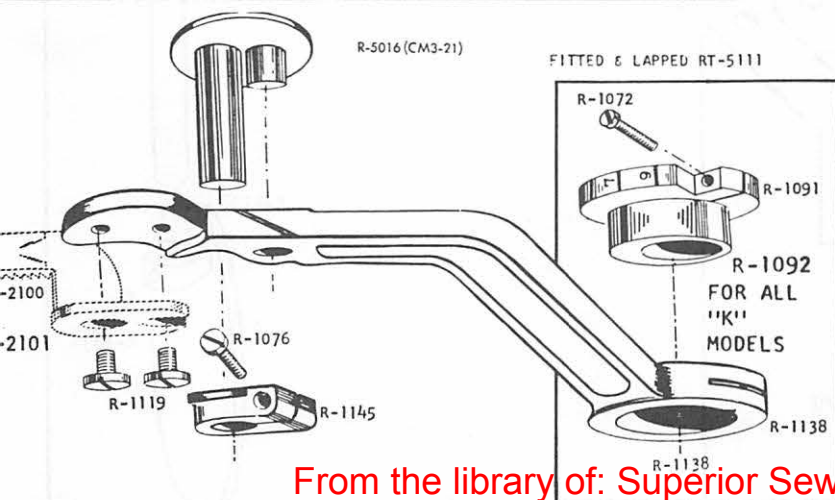
R-5018 Regulating Dial Assembly
 R-1223 Regulating Dial Shoe
 R-1222 Regulating Dial Screw
 R-5010 Face Plate and Guide Pin Assembly
 R-1109 Screw - Regulating Dial Assembly
 R-5039 Dial and Ratchet Assembly
 R-1039 Screw - Dial and Ratchet Assembly-Lock

GROUP 4

R-5011 Push Rod Assembly
 R-1193 Push Rod (1/4")
 R-1022 Cotter Pin
 R-1181 Spring - Push Rod (1/4")

GROUP 5

R-5012 Push Rod Assembly
 R-1195 Push Rod (3/8")
 R-1023 Cotter Pin
 R-1024 Spring - Push Rod (3/8")



FEED DRIVE GROUP

R-1138 Feed Lever
 R-1091 Stitch Regulating Collar
 R-1092 Stitch Regulating Collar For all "K"
 R-1072 Screw-Stitch Regulating Collar-Clamp
 R-5016 Rocker Pin Assembly
 R-1145 Collar - Rocker Pin
 R-1076 Screw - Rocker Pin Collar - Clamp
 R-2100 Feed Dog
 R-2101 Feed Dog Fine, 20 Teeth to Inch.
 R-1119 Screw - Feed Dog
 RT-5111 (1091 & 1138) Fitted and Lapped (CM3-21)

GROUP 1

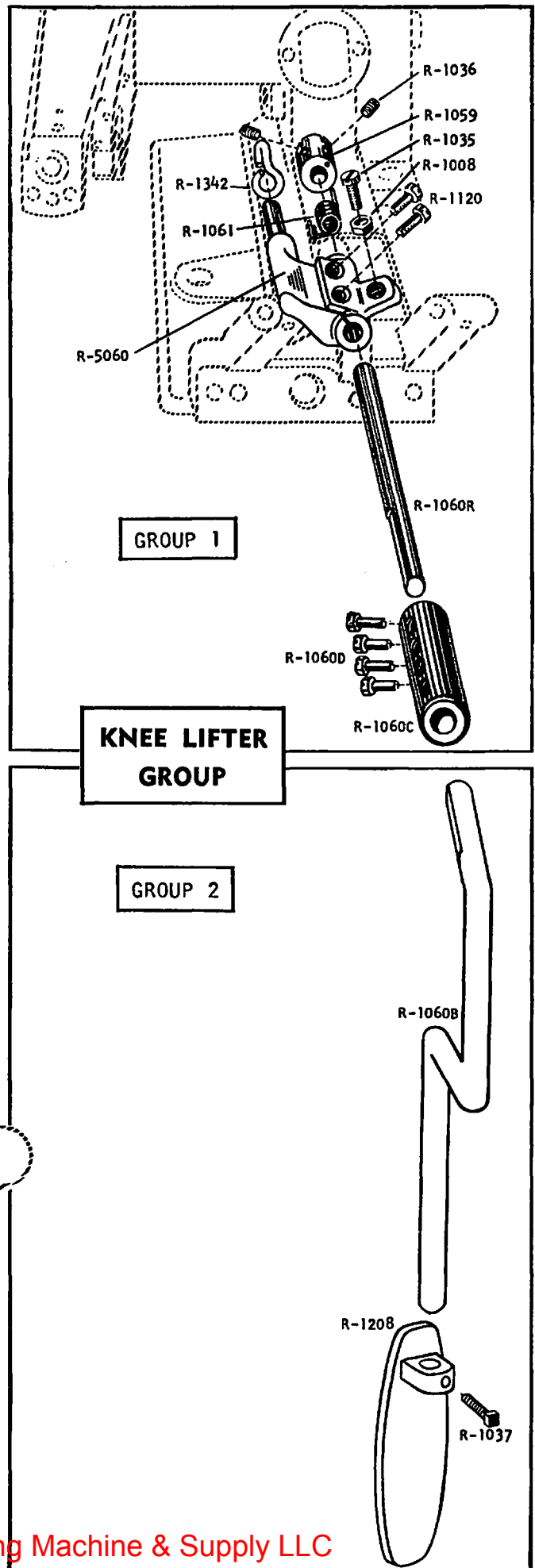
- R-1060R Knee Lifter Rod Shaft
- R-5060 Lift Arm
- R-1120 Screw - Lift Arm Clamp
- R-1008 Nut - Lift Arm Adjusting Screw-Lock
- R-1035 Screw - Lift Arm Adjustment
- R-1061 Spring - Knee Lifter Rod-Return
- R-1059 Collar - Knee Lifter Rod
- R-1036 Set Screw - Knee Lifter Rod Collar
- R-1334 Feed Frame "S" Hook
- R-1060C Knee Lifter Rod Sleeve
- R-1060D Knee Lifter Rod Sleeve Screws

GROUP 2

- R-1060B Knee Lifter Rod
- R-1208 Knee Pad
- R-1037 Knee Pad Screw

GROUP 3

- R-5020 Spring Link Assembly
- R-1191 Main Spring
- R-1177 Screw - Main Spring Link
- R-1184 Nut - Main Spring Adjusting
- R-1169 Nut - Spring Link Assembly-Retaining



GROUP 1

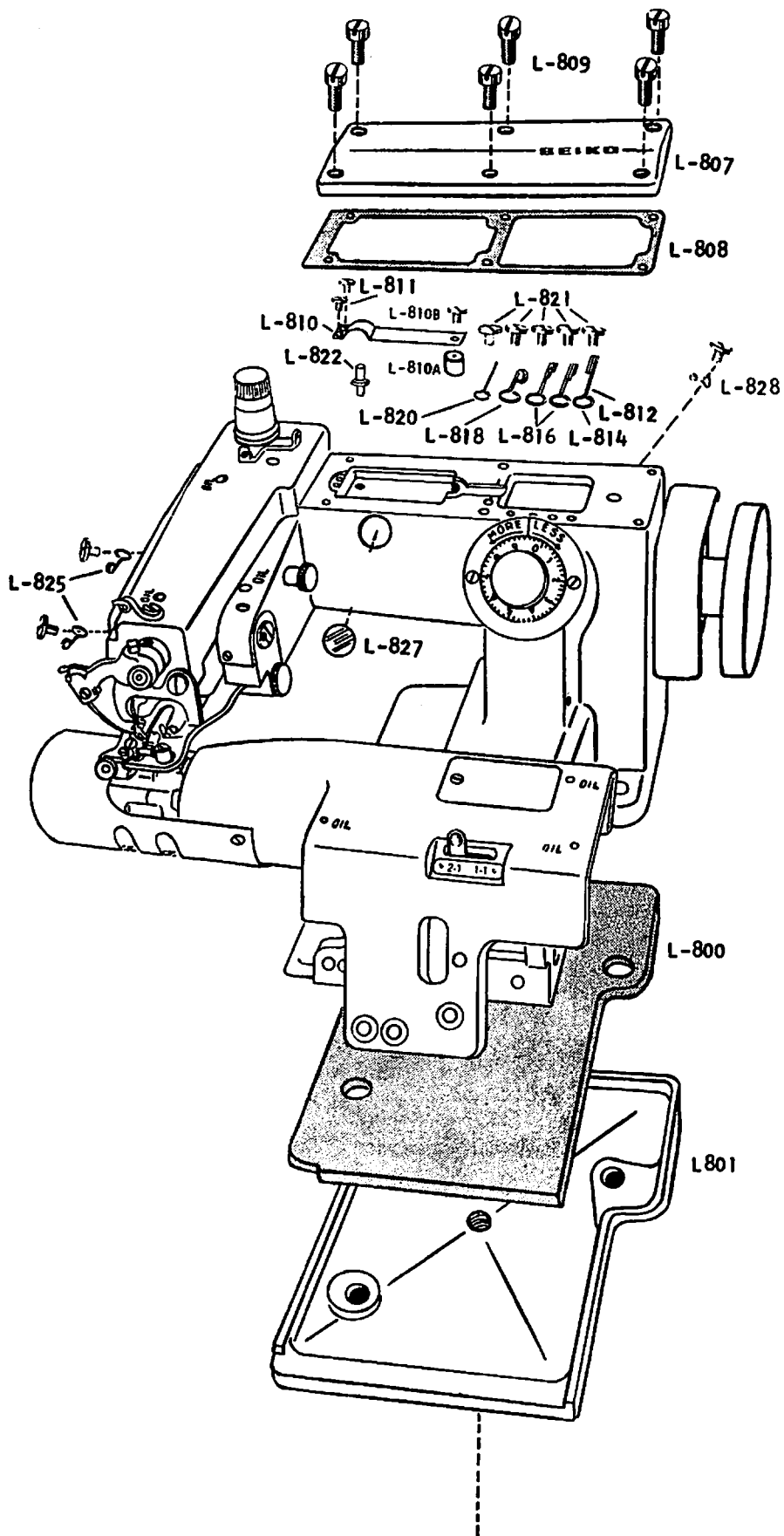
KNEE LIFTER GROUP

GROUP 2

GROUP 3

SPRING LINK GROUP

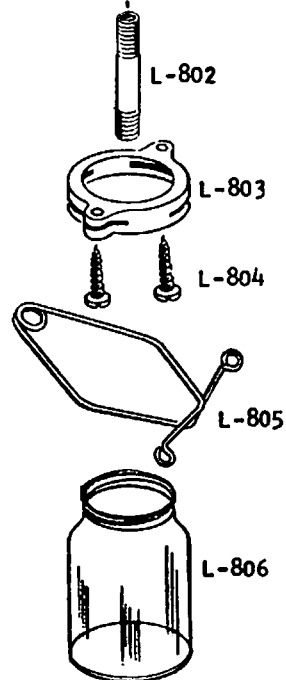
FEED FRAME



SEIKO
SEMI-SELF-OILER
MODELS
CM3-L21
SERIES

IMPORTANT

For SEIKO Semi-Self Oiler Models CM3-L21 Series. Use same part numbers as with CM3-21 models but add prefix "L"



IMPORTANT – For SEIKO Semi-Self-Oiler Models – CM3-L21 SERIES

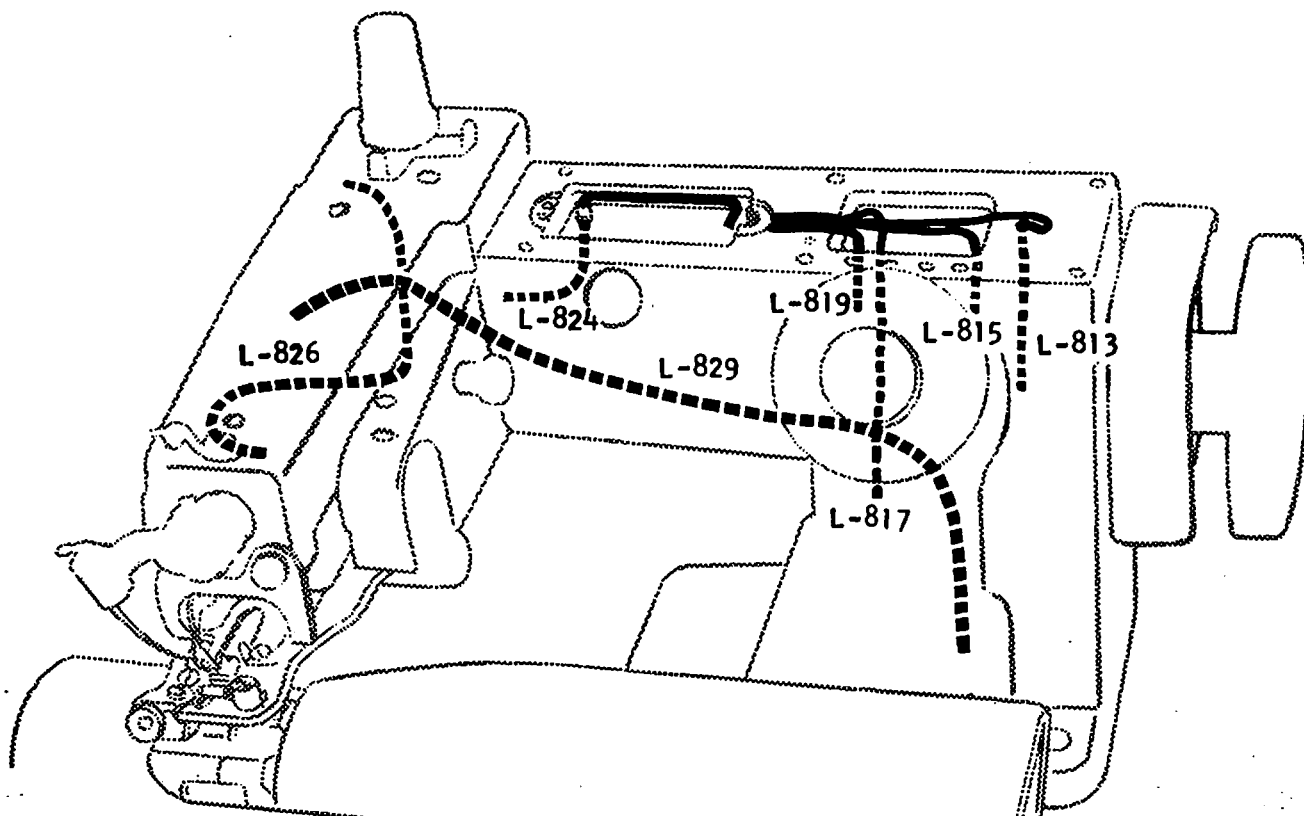
Use same part numbers as with CM3-21 models, but add prefix "L".

Example: Needleshaft (CM3-21 models) Part No. R-1095
Needleshaft (CM3-L21 models) Part No. LR-1095

PARTS LISTED BELOW ARE USED EXCLUSIVELY ON SEIKO SEMI-SELF-OILERS (CM3-L21 MODELS).

L-800 Felt Pad - Base
L-801 Base - Machine
L-802 Nipple - Base
L-803 Holder - Oil Bottle
L-804 Screws - Holder
L-805 Spring Clamp - Bottle Holder
L-806 Oil Bottle
L-807 Cover - Main Frame
L-808 Gasket - Cover
L-809 Screws - Cover
L-810 Oil Vibrator
L-810A Spring - Oil Vibrator
L-810B Screw - Oil Vibrator
L-811 Screws - Splasher
L-812 Wire Loop Holder - Wick L-813
L-813 Wick - Bushing

L-814 Wire Loop Holder - Wick L-815
L-815 Wick - Rib Connection Lever
L-816 Wire Loop Holder - Wick L-817
L-817 Wick - Skip Eccentric Gear
L-818 Wire Loop Holder - Wick L-819
L-819 Wick - Skip Stitch Gear Drive
L-820 Wire Holder - Wicks
L-821 Screws - Wire Loop Holders
L-822 Nipple - Wick L-824
L-824 Wick - Main Shaft
L-825 Wire Loop Holder - Wick L-826
L-826 Wick - Looper Rod Carrier
L-827 Glass - Oil Gauge
L-828 Wire Loop Holder - Wick 829
L-829 Wick - Drain From Side Cover To Base



WICK DIAGRAM

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