

DISASSEMBLY & ASSEMBLY INSTRUCTION FOR L·L100 SERIES

DISASSEMBLY & ASSEMBLY INSTRUCTION FOR L·L100 SERIES

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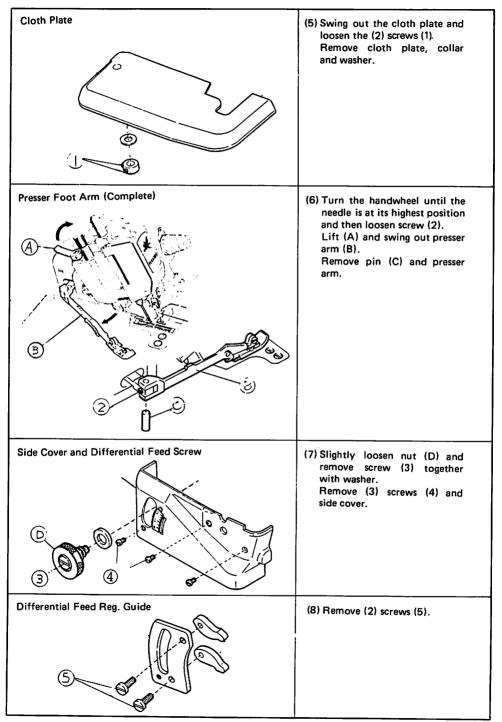
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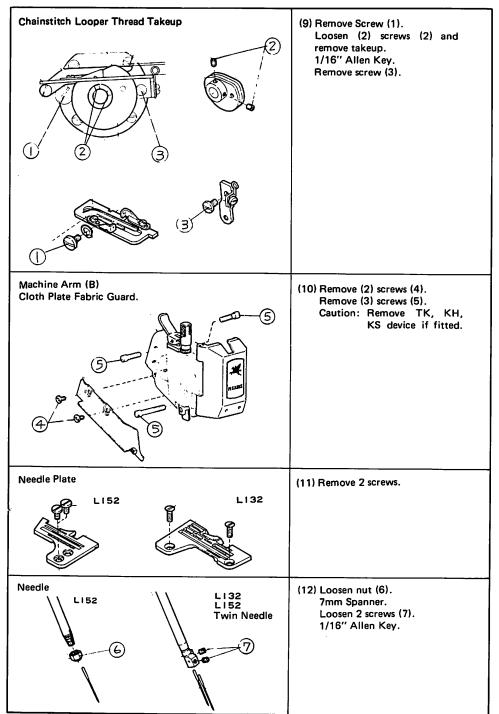
Drain Oil	(1) Remove screw and drain the oil Replace screw.
Top Cover	(2) Remove (4) screws.
Bed Cover Plate (Right)	(3) Remove (6) screws.
Machine Bed Cover Plate (Rear)	(4) Remove (6) screws.

Drain Oil	(1) Remove screw and drain the oil. Replace the screw.
I D'I	
Top Cover	(2) Remove 4 screws. Caution: Do not remove the Silicon Reservoir.
Bed Cover Plate (Right)	ι3) Remove (6) screws.
Machine Bed Cover Plate (Rear)	,4) Remove (6) screws. Caution: Remove TK device if fitted.
Baad Bund	

L, L100 Series



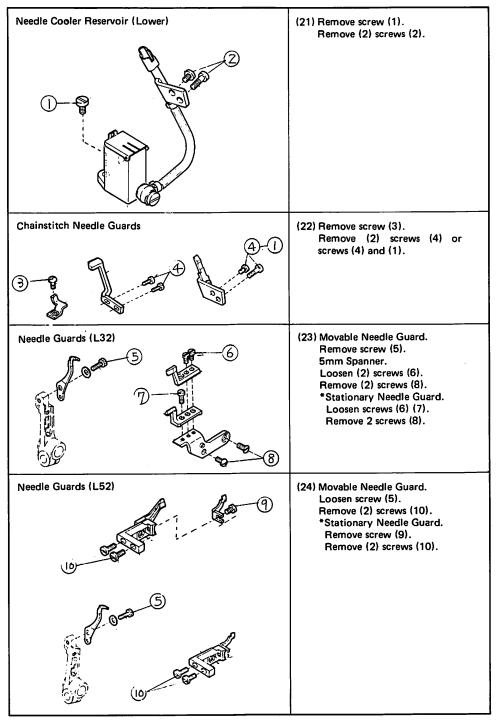
Chainstitch Looper Thread Take up	(9) Remove screw (1). Remove screw (2). Loosen 2 screws 3 and remove takeup. 1/16" Allen Key.
Machine Arm (B) Cloth Plate Fabric Guard	(10) Remove (2) screws (4). Remove (3) screws (5). Caution: Remove TK, KH, KS. device if fitted.
Needle Plate L52 L52 L32	(11) Remove 2 screws.
L52 L32 L52 Twin Needle	(12) Loosen nut (6). 7mm Spanner. Loosen (2) screws (7). 1/16" Allen Key.

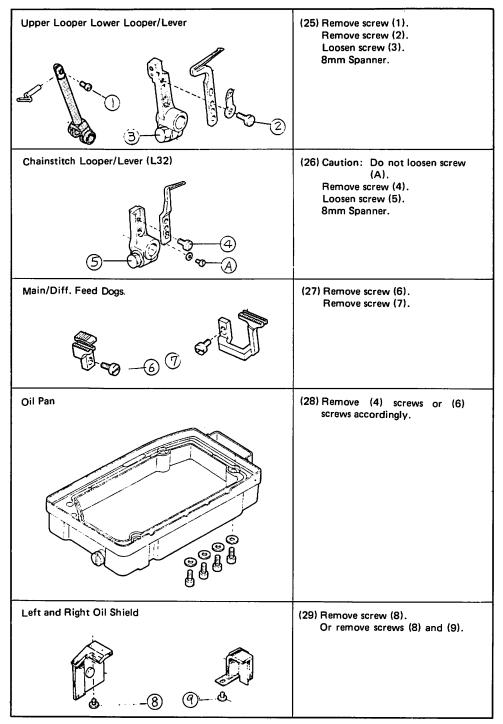


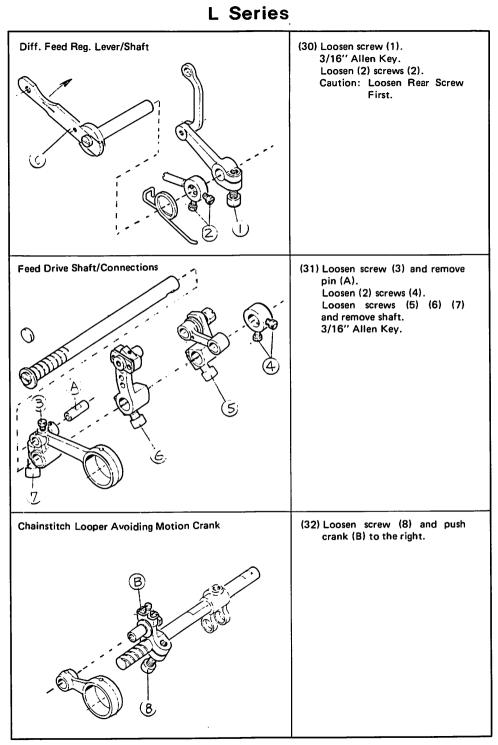
Bedplate (Left)	(13) Remove (8) screws.
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	
Feed Eccentric Cover	(14) Remove (2) screws.
V P	
Front Cover	(15) Loosen nut (1). 7mm Spanner. Remove screw (2). Remove (3) screws (3).
Face Plate. Thread Takeup. Thread Guide	(16) Remove screw (4). Remove (3) screws (5).

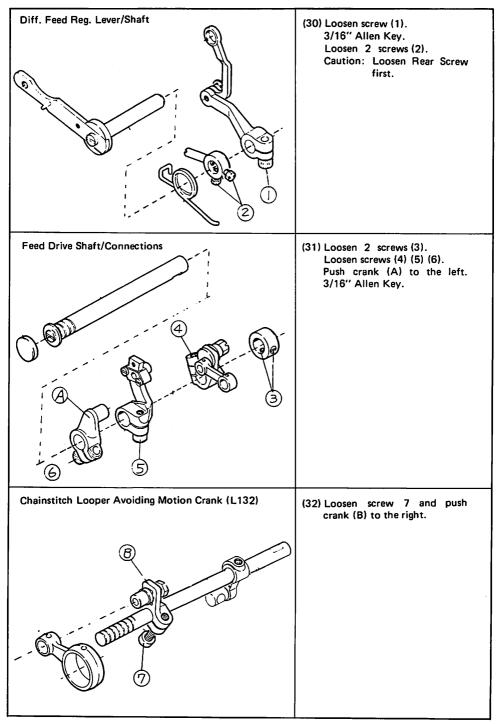
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Looper Thread Take-ups	(17) Remove screw (1). Remove screw (2). Remove screw (3).
Upper Knife. Clamp.	(18) Remove screw (4). 7mm Spanner. Remove screws (5).
Lower Knife Holder (L52)	(19) Loosen screw (6). 7mm Spanner. Loosen screw (7). Caution: Hold Lower knife holder to prevent it from springing out.
Lower Knife Holder (L32)	(20) Remove nut (8). Loosen screw (9). Caution: Hold lower knife holder to prevent it from springing out.

L, L100 Series



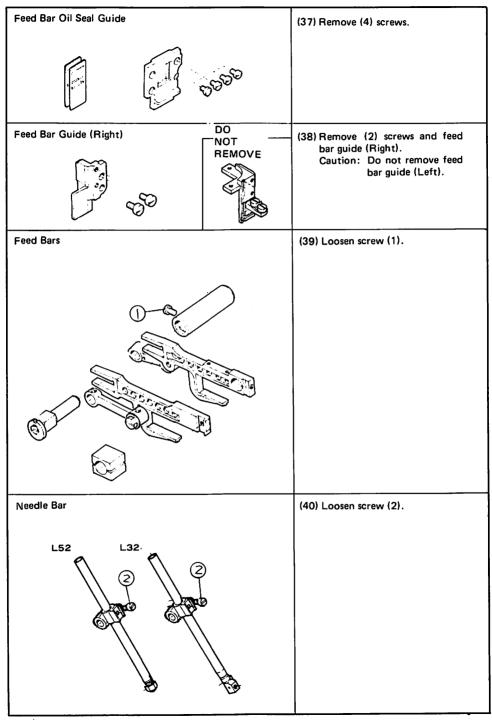






Housing L32 A G G G G G G G G G G G G G G G G G G	 (33) Remove (4) screws. To remove the housing insert (2) of the top cover screws Ref. Page 9 (2) into the screwholes (A). By turning each screw alternately the housing can easily be removed.
Crankshaft Extension Pin (L32) L32 0 L52	(34) (L32) Remove pin. 12mm Spanner. (L52) Remove screw.
Crankshaft Ball Bearing (Left) Looper Avoiding Connection (L32)	(35) Remove bearing. Remove (2) screws and the connection (L32)
Feed Eccentric Feed Drive Connection. Feed Eccentric Regulator.	(36) Remove screw (1). Remove screw (2). Loosen (2) screws (3). Loosen (2) screws (4). 1/8" Allen Key.

Housing L132 A B B B B B B B B B B B B B B B B B B	 (33) Remove (4) screws. To remove the housing insert 2 of the top cover screws Ref. Page (9) (2) into the screwholes (A). By turning each screw alternately the housing can easily be removed.
Crankshaft Extension Pin (132)	(34) L132 Remove pin. 12mm Spanner. L152 Remove screw.
Crankshaft Ball Bearing (Left) Looper Avoiding Connection L132	(35) Remove bearing L132 Remove 2 screws and the connection.
Feed Eccentric Drive Connection	 (36) Loosen (2) screws (1). Loosen screw (2). Ref to diagram. Loosen screw (3). Ref to diagram. Loosen (2) screws (4). Loosen (2) screws (5).

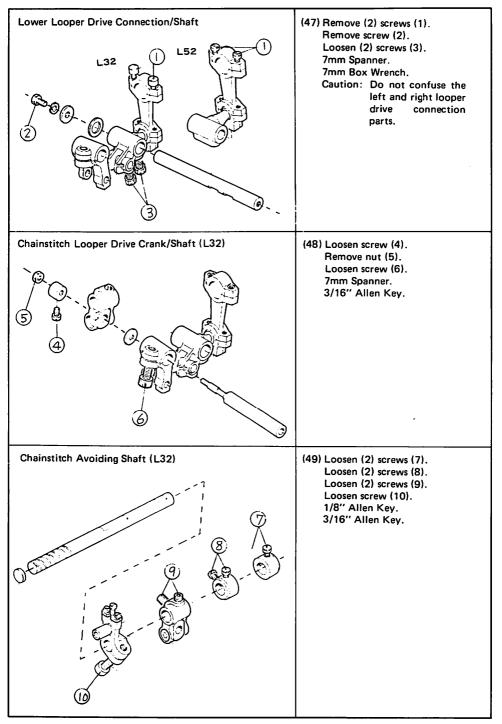


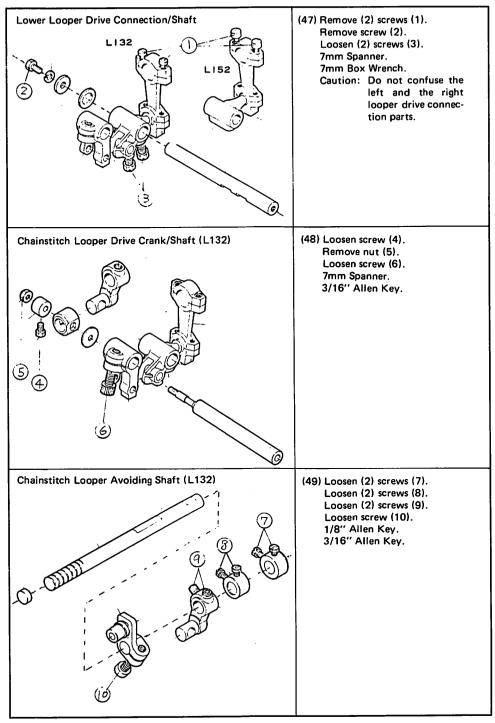
Oil Distributors	(41) Remove screw (1). Remove screw (2).
Needle Drive Connection /Crank/Shaft.	(42) Remove (2) screws (3). Loosen (2) screws (4).
	Loosen screw (5). 3/16" Allen Key.
Machine Arm (Å)	(43) Remove (4) screws.

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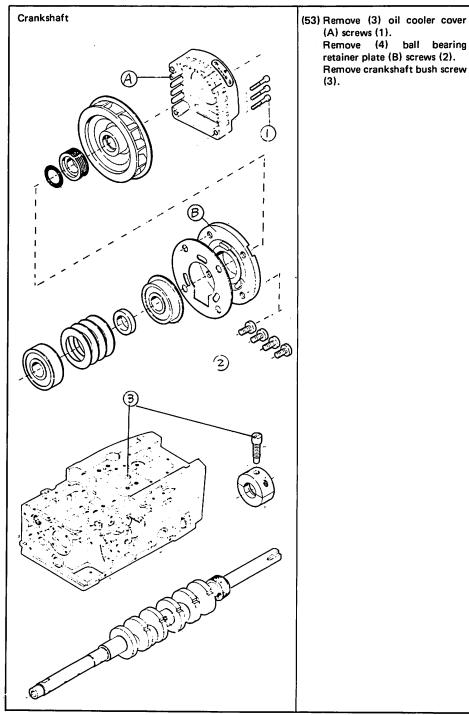
Oil Pump	(44) Remove (3) screws.
O-ring	Caution: Do not loose Rubber O ring.
Upper Looper Drive Connection/Shaft Upper Looper Lever	 (45) Remove (2) screws (1). Loosen screw (2). Loosen (2) screws (3). 3/8" or 9.5mm Box Wrench. 7mm Box Wrench. While holding crank (A) firmly the Looper shaft can easily be pushed out. Caution: Do not confuse the left and right looper drive connection parts.
Upper Knife Drive Connection/Lever	 (46) Remove (2) screws (4). Loosen screw (5). Loosen screw (6). 7mm Box Wrench. 3/16" Allen Key. Caution: The upper knife shaft can't be re- moved at this stage. If it is necessary to remove the upper knife lever then remove the feed bar guide (left) refer to Page 22 (38). For the reassembly procedure refer to Page 85.

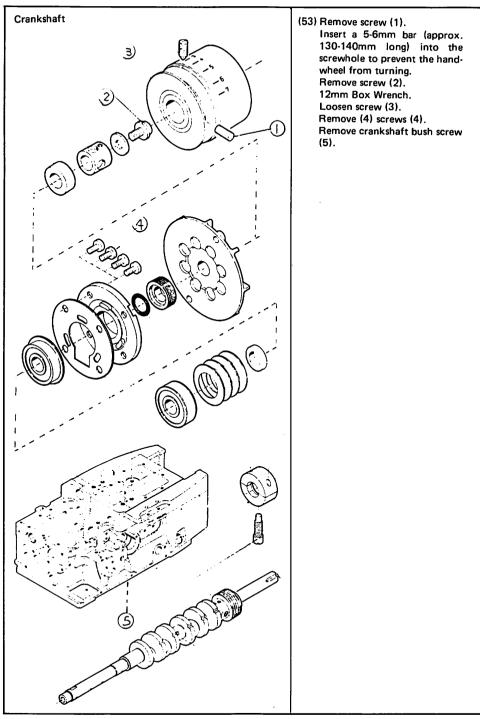


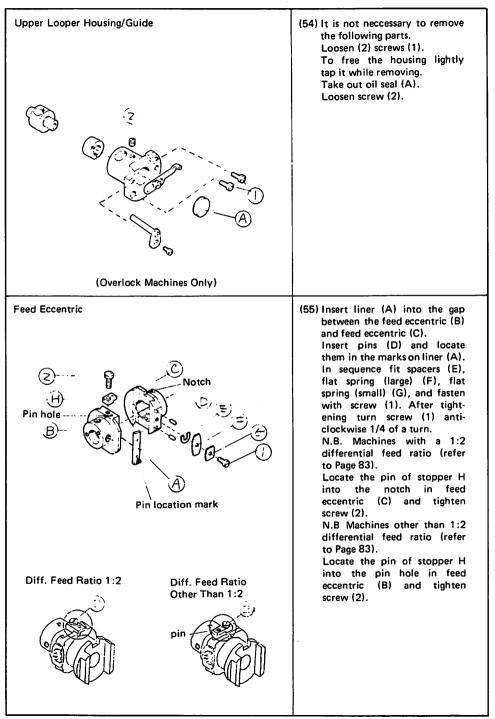


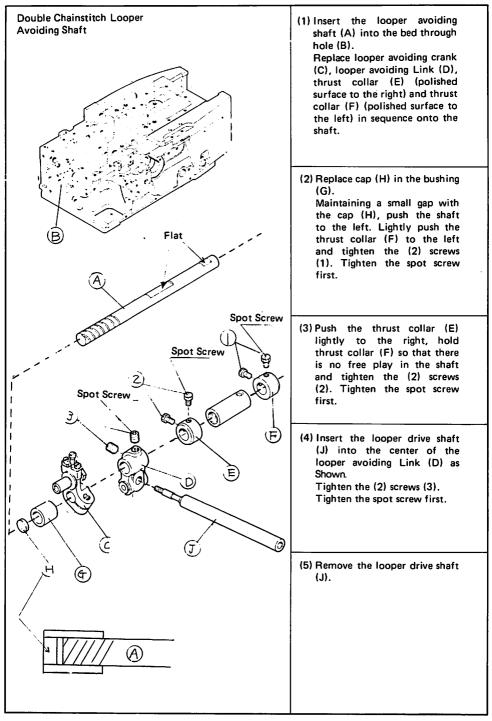
Foot Lift Shaft	(50) Loosen screw (1) which is located in the rear of the bed. Loosen screw (2). 7mm Spanner.
Foot Lift Lever	(51) Hold down the foot lift lever (A) and remove screw (3). Turn foot lift lever (A) anti- clockwise and remove.
Handwheel	 (52) Remove screw (4). Insert a 5-6mm diameter bar (approx. 130-140mm long) into the screwhole to prevent the handwheel from turning. Remove screw (5). 12mm Box Wrench. Loosen screw (6) and remove the handwheel.

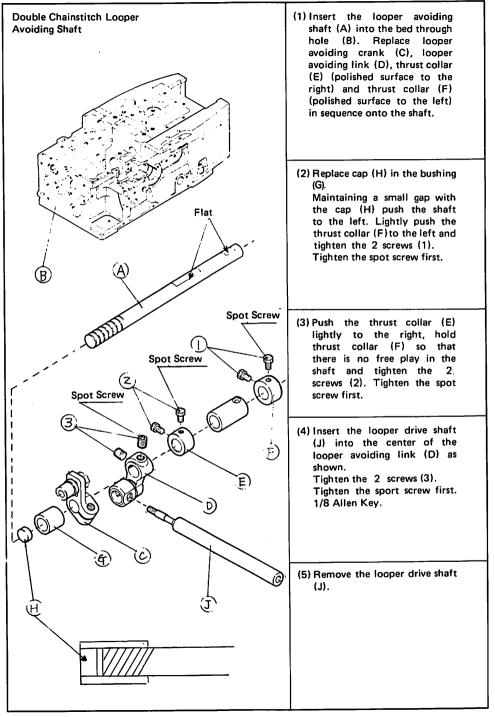
Foot Lift Shaft	(50) Loosen screw (1) which is located in the rear of the bed. Loosen screw (2). 7mm Spanner.
Foot Lift Lever	(51) Hold down the foot lift Lever (A) and remove screw (3). Turn foot lift lever (A) anti- clockwise and remove.
Crankshaft Balance Weight	(52) Hold the handwheel still by hand and remove (2) screws.

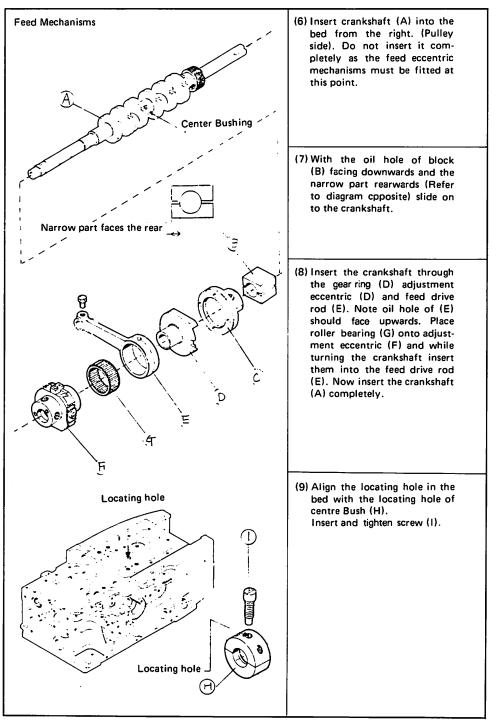


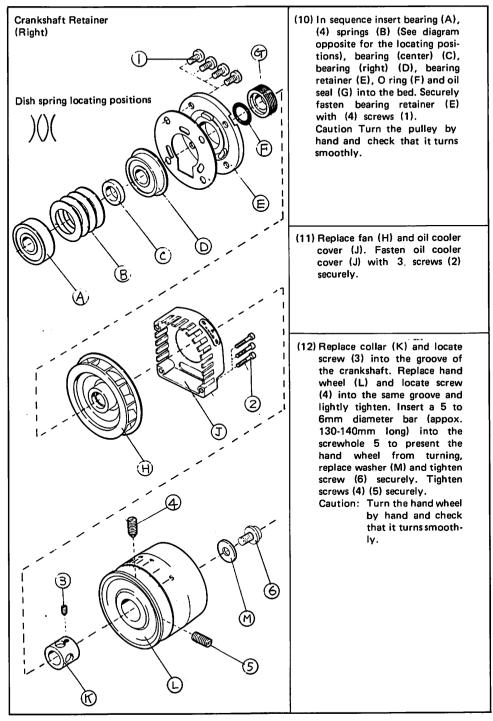




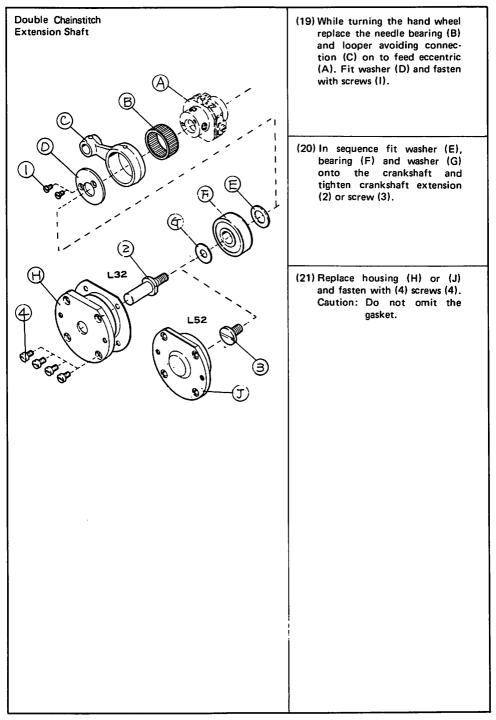


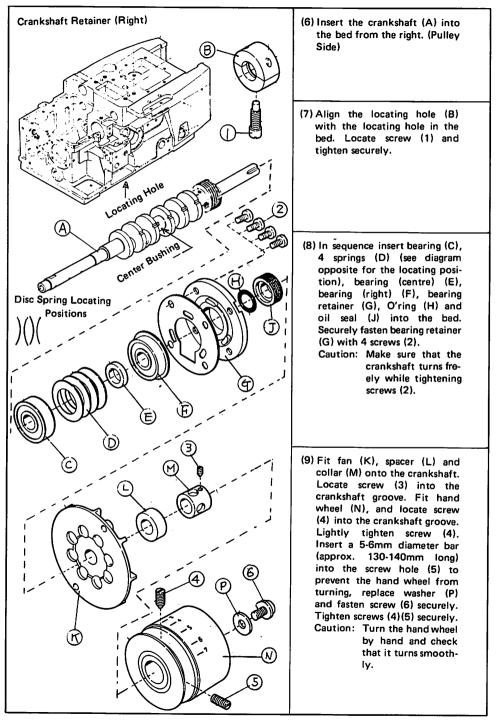


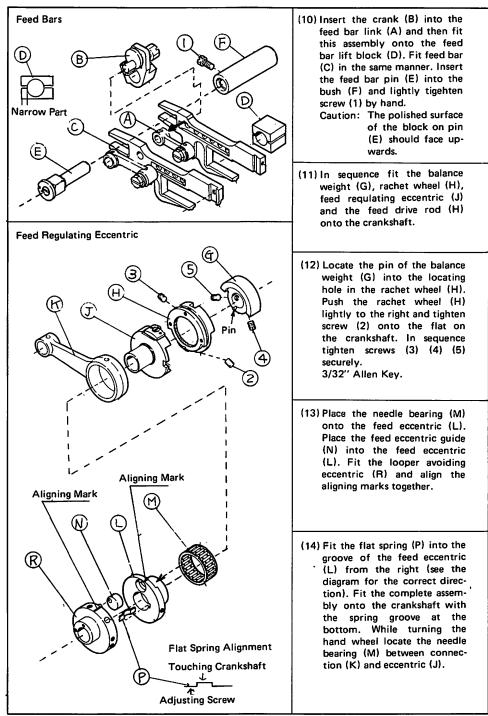


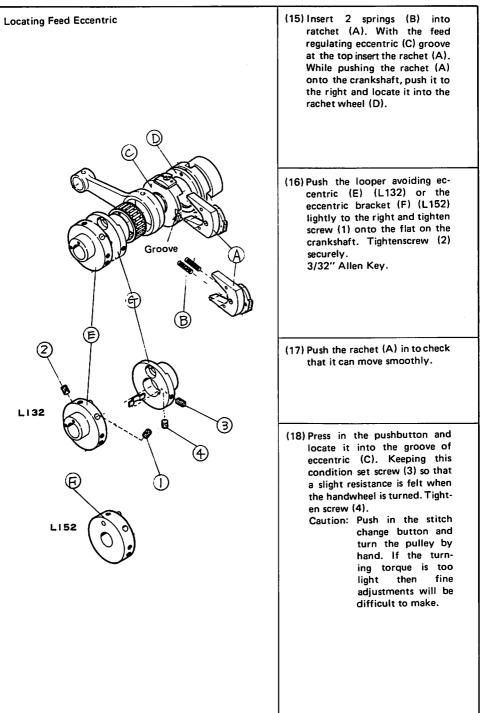


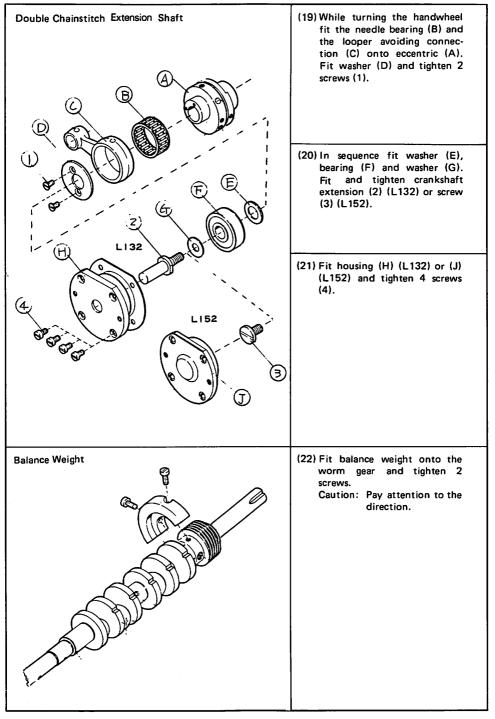
Feed Bars	 (13) Insert crank (B) into feed bar link (A) and then fit this assembly onto the feed bar lift block (D). Next fit feed bar (C) in the same manner. Insert the feed bar pin (E) into the bush (R) and lightly tighten screw (I) by hand. Caution: The polished surface of the block on pin (E) should face upwards.
	(14) If the positions of the screws (2) and (3) are incorrect when they are tightened then the feed movement and the chain- stitch looper timing against the needle timing will alter So extreme care must be taken when positioning them.
Locating Feed Eccentric	 (15) Push the gear ring (F) lightly to the right and align the spot screw with the flat on the crankshaft. Securely tighten screws (2). N.B. Tighten spot screw first. 1/8" Allen Key.
Groove	 (16) Insert (2) springs (H) into rachet (G). With the groove of the feed regulating eccentric (J) at the top insert the rachet between (F) and (J) and lightly push regulating eccentric to the right.
spot screw	 (17) Lightly push connection (K) bearing (L) and eccentric (M) to the right and align the spot screw (3) with the flat on the crankshaft. Tighten 2 screws (3). Note: Tighten spot screw first. 1/8" Allen Key.
3	(18) Push the rachet (G) in to check that it can move smoothly.

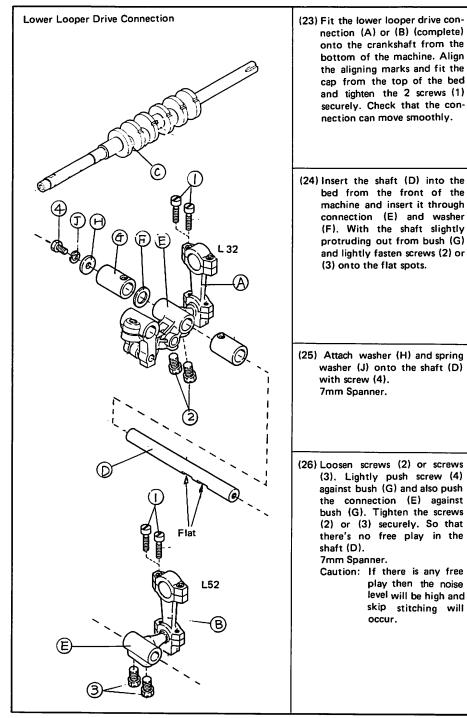


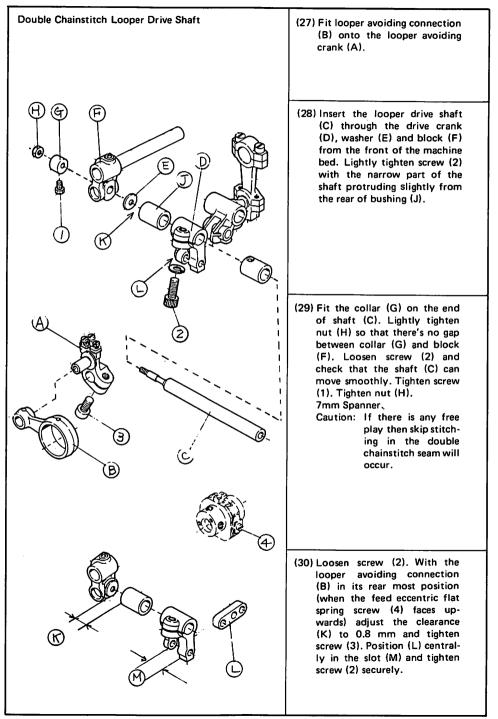


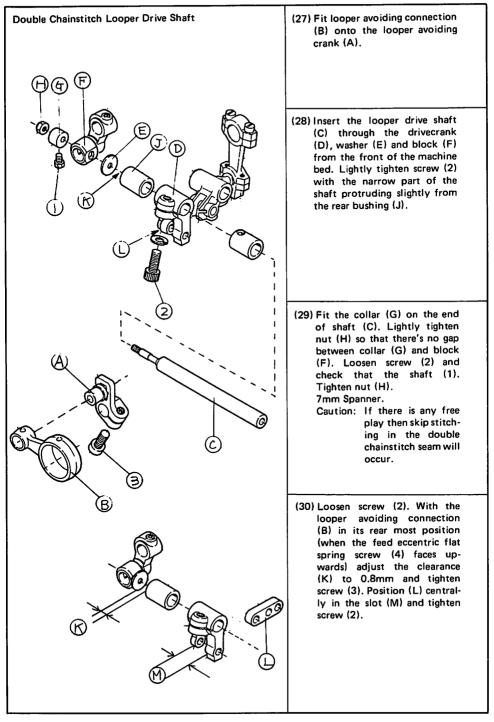


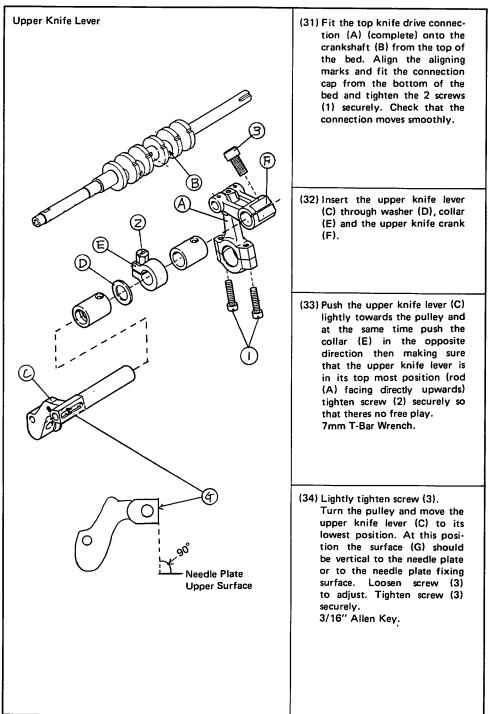


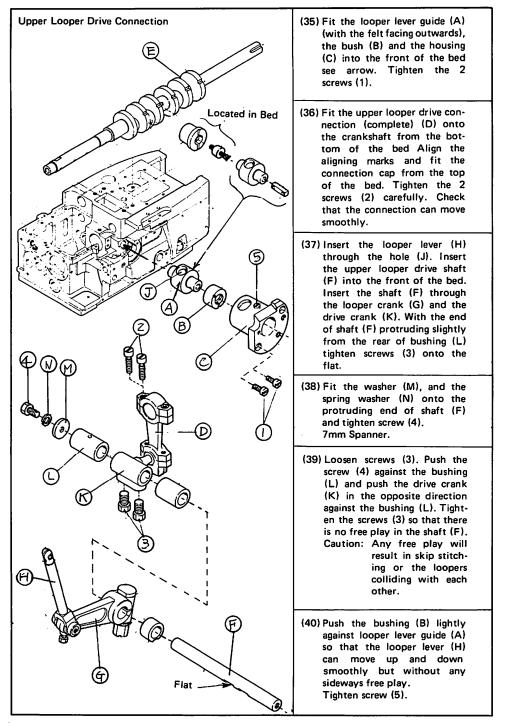


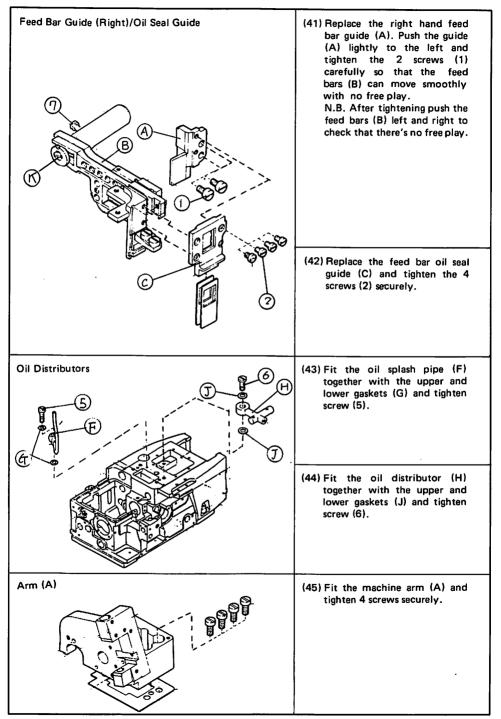


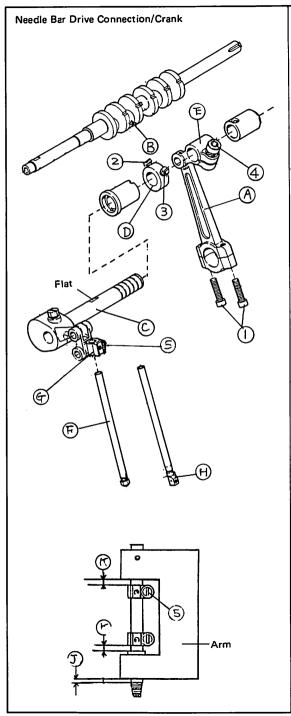












- (46) Fit the needle bar drive connection (A) as a set onto the crankshaft spot (B) from the top of the bed. Align the aligning marks and fit the connection cap from the bottom of the bed and tighten screws (1) carefully. Check that the connection can move smoothly.
- (47) Insert the needle bar drive shaft (C) through the machine arm, collar (D) and the crank
 (E). Push the drive shaft (C) towards the pulley and push the collar (D) in the opposite direction. Making sure that there's no free play tighten screw (2) onto the flat spot on shaft (C). Tighten screw (3).
 - (48) Insert the needle bar (F) or (H) into arm (A) and through clamp (G). With the needle bar drive crank at the top of its stroke set clearance (J) (from the bottom surface of the arm to the screw threads of (F) or the needle holder on (H)) to 1.0-1.5mm and tighten screw (5).
 - (49) Move the needle bar drive rod (A) to its lowest position and lightly tighten screw (4). Make sure that when the handwheel is turned the 2 clearance (K) are the same. Adjust if neccessary tighten screw (4) securely.

Needle	(50) With the scarf of the needle facing rearwards fully insert the needle into the needle holder.
Needle Plate	(51) Replace the needle plate and tighten the 2 screws.
Needle Alignment	 (52) Loosen screw (1) slightly to set the needle drop point. In the case of twin needle L52 machines the needles should be in line with each other (see diagram opposite). Lightly tighten screw (1). The needle bar should be able to be moved by hand.
Needle Height L52 L32 1-Needle 2-Needle Left Needle Needle Needle Plate	 (53) Move the needle bar to its highest position. Set the cor- rect distance between the needle point and the needle plate surface. Tighten screw (1). The needle height depends on the machine subclass. Refer to the table on the next page for the correct setting.

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Machine model L152-24 L52-24 L152-1652 L52-1652 L152-17 L52-17 L152-27 L52-27	Needle(A) height	Machine model			Needle(A)	
L152-1652 L52-1652 L152-17 L52-17 L152-27 L52-27			Needle (A) height	Machine model	height	
L152-17 L52-17 L152-27 L52-27	9.7	L52-260/504	10.4	L 132-05 L 32-]
L152-27 L52-27	9.7	L152-1751 L52-1751	9.7	L 132-07 L 32-		
	9.7	L152-180 L52-180	9.7	L 132-30 L 32-		
L152-28 L52-28	9.7	L152-350 P1 L52-350 P1	9.7	L 132-36 L 32-		4
L152-31 L52-31	9.7	L152-351 P1 L52-351 P1	11.3	L 132-31 L 32-		1
L152-01 L52-01	9.7	L152-57 P1 L52-57 P1	9.7	L 132-38 L 32-	·	
L152-11 L52-11	11.3	L152-52P1 L52-52P1	9.7	L132-70 L32-		
L152-37 L52-37	11.3	L152-31 P1 L52-31 P1	9.7	L 132-86 L 32-		
L152-05 L52-05	9.7	L152-34 21 L52-34 21	11.3	L 132-91 L 32-		
L152-12 L52-12	11.3		<u> </u>	L 132-48 L 32-		
L152-13 L52-13	9.7			L 132-78 L 32-		
L152-15 L52-15	11.3			L 132-550 L 32-		
L152-18 L52-18	11.3			L 132-551 L 32-		
L152-1851 L52-1851 L152-1852 L52-1852	11.3			L 132-355 L 32-		4
L152-23 L52-23	1.3			L 132-359 L 32-		
L152-25 L52-25	11.3			L 132-555 - 32-		
L152-34 L52-34	11.3			L 132-559 L 32-	559 12.0	J
LIS2-56 LS2-56	<u>11.8</u>	laadla I 32)		(54) Remove t		
(A)		B	Ū	that it to thread gu screw (1	looper la uches pin iide (D) a securely onto the la t.	ever (A) so (C). Fit the and tighten A. Fit this ower looper
Right Need	dle			Turn the needle to lowest p looper so the cento and that	pulley an 3-3.5mm osition. that its t erline of the clea em is Om rew (2).	d raise the a above its Move the ip is behind the needle arance bet- m. Lightly
N	leedle Bar ir	1 Lowest Position		(57) (L52 Sin	gle Needle	L32)
	-			the loop left positive between to the ce to the co table on	er is in ion. Set t the tip of nterline o	hand until its extreme the distance the looper f the needle own in the t page.

Machin	e model	Left (8) looper
L152-24	L52-24	4.6
L152-1652	L52-1652	4.6
L152-17	L52-17	4.6
L152-27	L52-27	3.9
L152-28	L52-28	4.6
L152-31	L52-31	4.6
L152-01	L52-01	4 6
L152-11	L52-11	4.3
L152-37	L52-37	4.3
L152-05	L52-05	4.6
L152-12	L52-12	4.3
L152-13	L52-13	4.6
L152-15	L52-15	4.3
L152-18	L52-18	4.3
L152-1851	L52-1851	43
L152-1852	L52-1852	4.3
L152-23	L52-23	4.3
L152-25	L52-25	4.3
L152-34	L52-34	4.3
L152-56	L52-58	3.9

Machine model		Left (8) looper
_	L52-260 504	3.9
L152-1751	L52-1751	4.6
L152-180	L52-180	4.6
L152-350	L52-350	4.6
L152-351	L52-351	4.3
L152-57	L52-57 P1	4.6
L152-52	L52-52	4 6
L152-31	L52-31	4.6
L152-34	L52-34	4.3

Machin	e model	Left (B) looper
L 132-05	L 32-05	, 3.9
L 132-07	L 32-07	3.9
L 132-30	L 32-30	3.9
L 132-36	- 32-36	3.9
L 132-31	L 32-31	3.9
L 132-38	L 32-38	3.9
L 132-70	L 32-7C	3.9
L 132-86	L 32-86	3.9
L 132-91	L 22-91	3.9
L 132-48	L 32-48	3.9
L 132-78	L 32-78	3.9
L 132-550	L 32-550	3.9
L 132-551	L 32-551	3.9
L 132-355	L 32-355	3.9
L 132-359	L 32-359	3.9
L 132-555	L 32-555	3.9
L 132-559	L 32-559	3.9

Setting Lower Looper (L52 2-Needle)



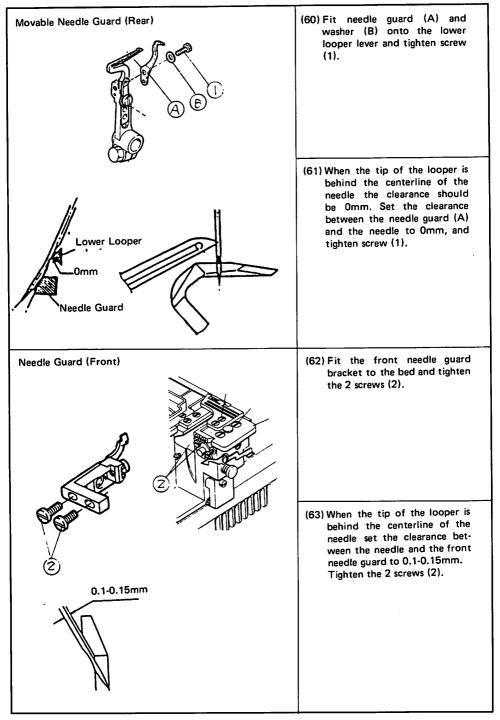
(58) (L52 Twin Needle)

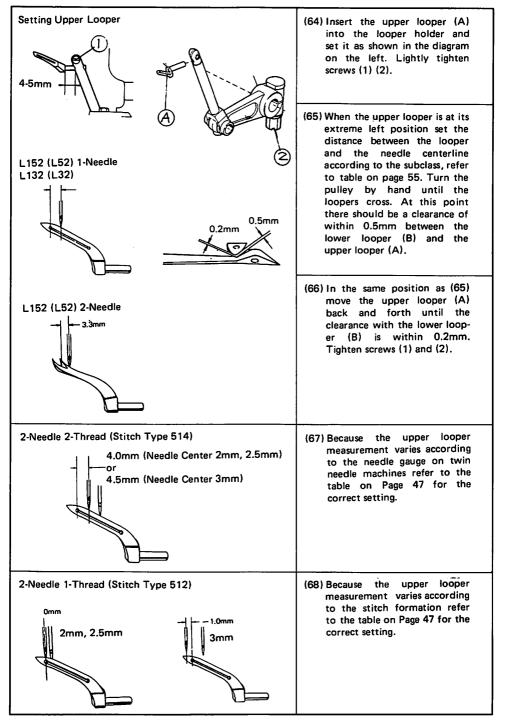
Turn the pulley and raise the needle to 3-3.5mm above its lowest position. Move the looper so that its tip is behind the centerline of the left needle and that the clearance between them is 0mm. Turn the pulley by hand and check that the clearance between the right needle and looper is also 0mm. Lightly tighten screw (1). 8mm Spanner.

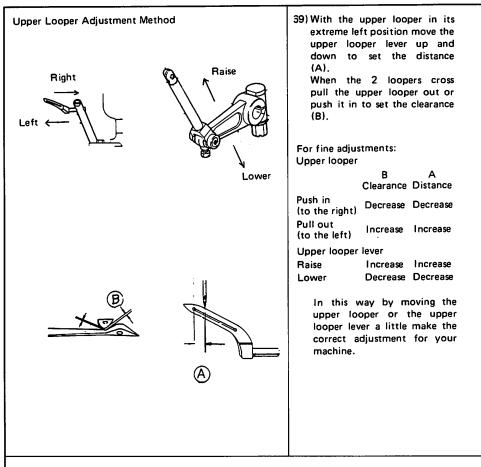
(59) (L52 Twin Needle)

Turn the pulley by hand until the looper is inits extreme left position. Set the distance between the tip of the looper and the centerline of the needle to the correct distance shown in the table above. Tighten screw (1) securely.

Recheck the needle height and tighten screw (1) of page 50 securely.







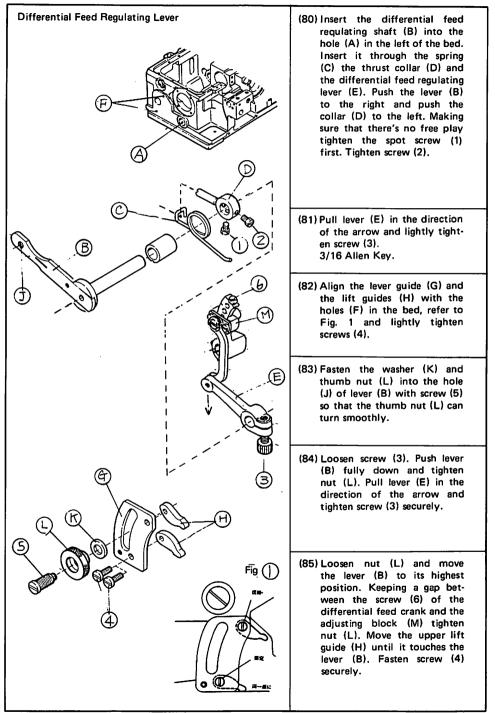
Machini	nodel	Right (C) looper
L152-24	L52-24	3.3
L152-1652	L52-1652	3.3
L152-17	L52-17	3.3
L152-27	L52-27	3.3
L152-28	L52-28	33
L152-31	L52-31	3.3
L152-01	L52-01	3.3
L152-11	L52-11	0
L152-37	L52-37	0
L152-05	L52-05	4.0
L152-12	L52-12	4.0
L152-13	L52-13	4.0
L152-15	L\$2-15	4.0
L152-18	L52-18	4.0
L152-1851	L52-1851	40_
L152-1457	L52-1852	4.0
L152-23	L52-23	4.0
L152-25	L52-25	4.0
L152-34	L52-34	4.0
L152-56	L52-56	4.5

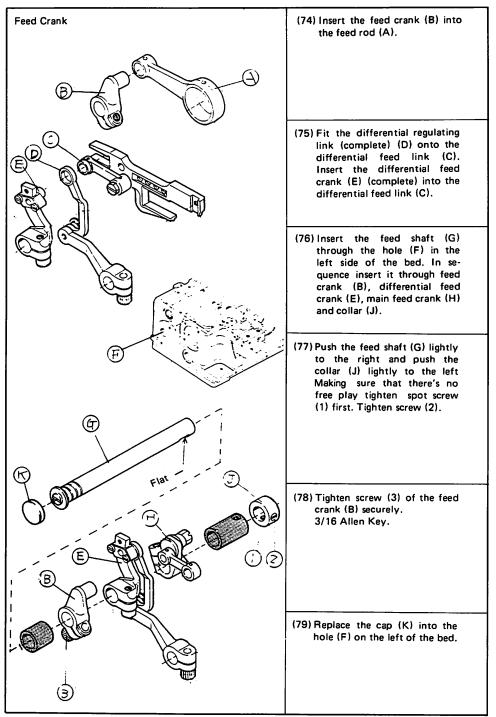
Machine model		Right (C) looper
	L.52-260 504	3.3
L152-17si	L52-1751	3.3
L152-180	L52-180	3.3
L152-350	L52-350	3.3
L152-351	L52-351 P1	4.0
L152-57 PT	L52-57 PI	3.3
L152-52 -	L52-52 PI	4.0
L152-31	L52-31 P1	3.3
L152-34	L52-34	4.0

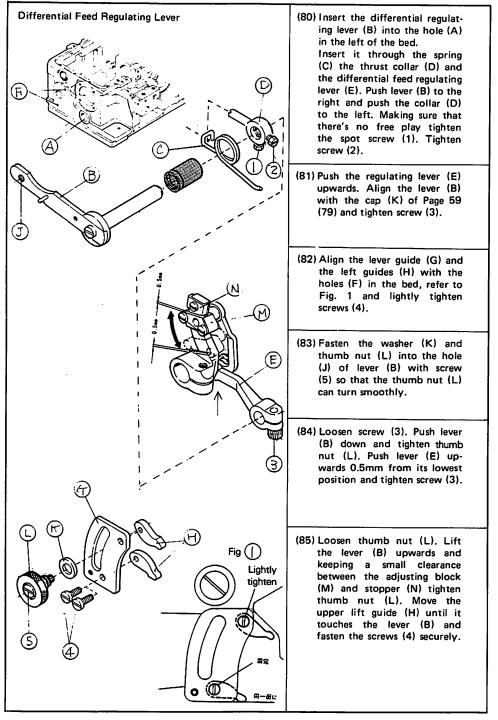
Machine model		Right (C) looper
L 132-05	L 32-05	3.3
L 132-07	L 32-07	3.3
L 132-30	L 32-30	3.3
L 132-36	L 32-36	3.3
L 132-31	L 32-31	3.3
L 132-38	L 32-38	3.3
L 132-70	L 32-70	3.3
L 132-86	L 32-86	3.3
L 132-91	L 32-91	3.3
L 132-48	L 32-48	3.3
L 132-78	L 32-78	3.3
L 132-550	L 32-550	3.3
L 132-551	L 32-551	3.3
L 132-355	L 32-355	4.0
L 132-359	L 32-359	0
L 132-555	L 32-555	4.0
L 132-559	L 32-559	0

Setting Double Chainstitch Looper	 (70) (L32) Replace the double chainstitch looper in holder so that it touches looper regulating washer er (A). Tighten screw (1) securely. Fit the looper lever onto shaft and lightly tighten screw (3). N.B. The looper should be adjusted to 59.5mm as shown.
3 AL	 (71) Fit the double chainstitch needle (left hand). Turn the pulley and raise the needle to 3mm above its lowest position. Move the looper by hand so that its tip is behind the centerline of the needle and set the clearance between them to 0mm. Lightly tighten screw (3).
2.1mm	 (72) Turn the pulley and move the looper to its extreme left position. Set the distance between the tip of the looper and the center line of the needle to 2.1mm. Tighten screw (3) securely.
	 (73) When the looper starts moving from its extreme right hand position to the left check that at any given point the clearance between the rear of the looper and the left hand needle is 0mm. Caution: If the clearance is too large or if the
0000	needle touches the rear of the looper at any point then refer to Page 82 No. 168 and readjust the looper avoiding motion.

Feed Crank	(74) Insert pin (C) through feed crank (B) and feed rod (A). Tighten screw (1).
B B A	
C () E () E () E () E () E () E () E () E	(75) Insert the differential feed crank (complete) (E) into the differential feed link (D).
	(76) Insert the feed shaft (G) through the hole (F) in the left side of the bed. In se- quence insert it through feed crank (B), differential feed crank (E), main feed crank (H) and collar (J).
E FIN	(77) Push the feed shaft (G) lightly to the right and push the collar (J) lightly to the left. Making sure that there's no free play tighten screw (2) onto the flat spot. Tighten screw (3).
De Communication de la communicación de la communi Communicación de la communicación	(78) Tighten the screw (4) of the feed crank (B).
	(79) Replace the oil seal (K) into the hole (F) in the bed.



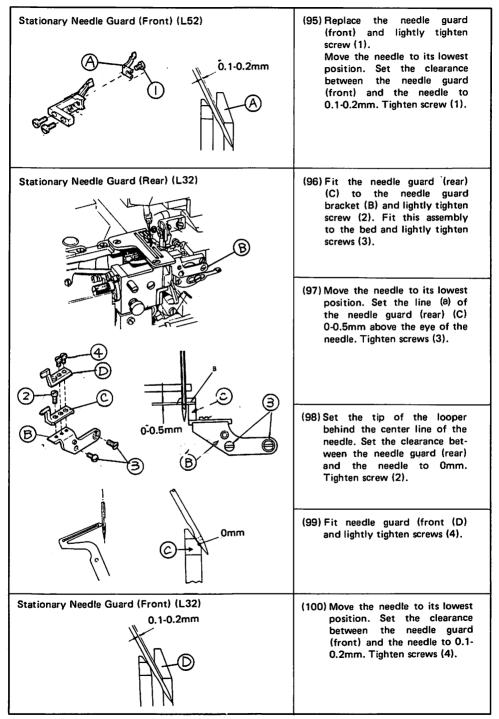




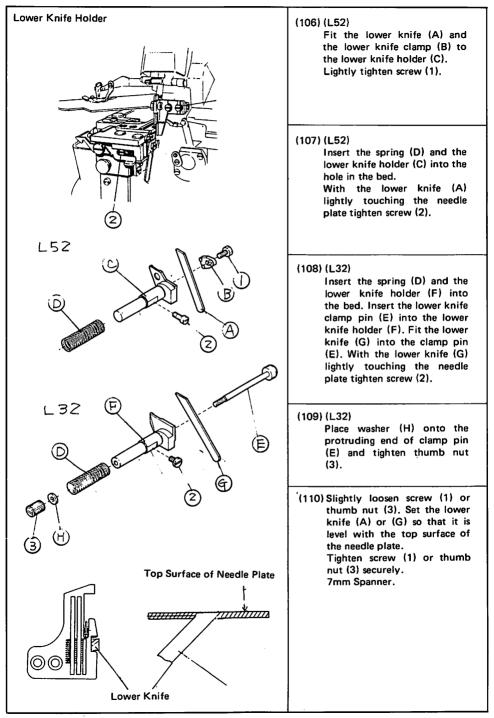
Feed Dogs	(86) Replace the main feed dog (D) and lightly tighten screw (1). Replace the differential feed dog (E) and lightly tighten screw (2).
Needle Plate	(87) Replace the needle plate and lightly tighten the 2 screws.
Positioning Feed Dogs Setting Maximum Stitch Length	(88) Press in the push button (F) and turn the handwheel clock- wise until the push button engages. Keeping this condi- tion turn the handwheel fully clockwise and set to maximum stitch length.
While pushing this	 (89) Turn the handwheel and move the main feed dog to its rear most position. Set the clear- ance (A) between the main feed dog and the needle plate to 1mm. Tighten screw (3).
	(90) Set the lever (B) of Page 59 (85) to its highest position. Turn the handwheel and move the differential feed dog to its front most position. Set the clearance (C) between the differential feed dog and the needle plate to 1mm.
	Tighten screw (4).

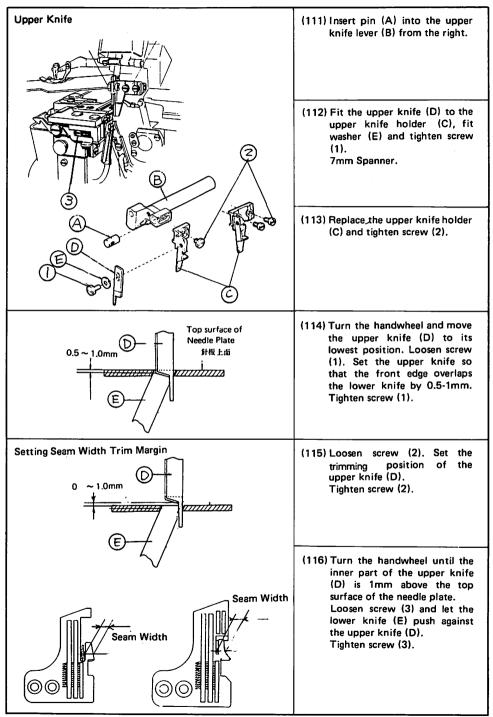
	······································
Feed Dogs	(86) Replace the main feed dog (D) and lightly tighten screw (1). Replace the differential feed dog (E) and lightly tighten screw (2).
Needle Plate	(87) Replace the needle plate and lightly tighten the 2 screws.
Positioning Feed Dogs Setting Maximum Stitch Length	(88) Press in the push button (F) and turn the handwheel until the push button engages. Keep- ing this condition turn the handwheel fully clockwise and set to maximum stitch length.
	 (89) Turn the handwheel and move the main feed to its rear most position. Set the clearance (A) between the main feed dog and the needle plate to 1mm. Tighten screw (3).
	(90) Set the lever (B) of Page 60 (85) to its highest position. Turn the handwheel and move the differential feed dog to its front most position. Set the clearance (C) between the differential feed dog and the needle plate to 1mm. Tighten screw (4).

Main Feed Dog Height	(91) Move the main feed dog to its highest position. Set it so that the rear 2 reeth are 1mm above the surface of the needle plate. Tighten screw (1).
Differential Feed Dog Height 3 Surface Positions Level	(92) Turn the handwheel until the top surface of the main feed dog is level with the top sur- face of the needle plate and then stop. Set the differential feed dog so that it's also level with the needle plate surface. Tighten screw (2).
Needle Plate	(93) Remove the needle plate.
Stationary Needle Guard (Rear) (L52)	 (94) Fit the needle guard bracket to the left surface of the bed and lightly tighten screws (3). (Ref. to Page 53 (62)) When the tip of the looper is behind the centerline of the needle set the clearance bet- ween the needle guard (rear) and the needle to 0mm (the clearance between the looper and the needle should also be 0mm). Tighten the screws (3) securely.

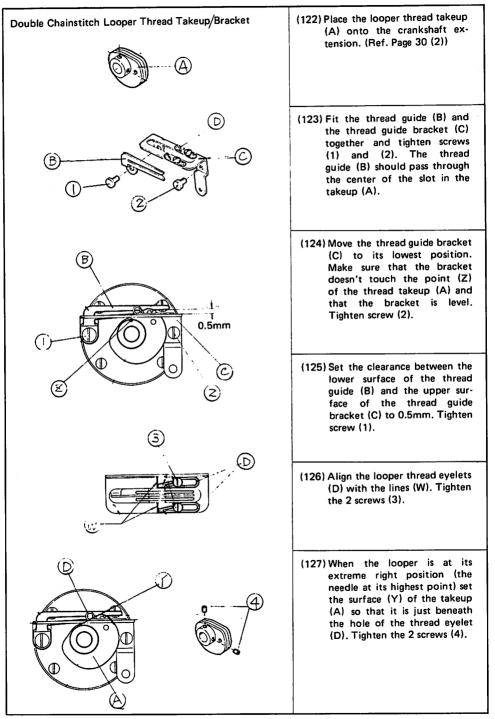


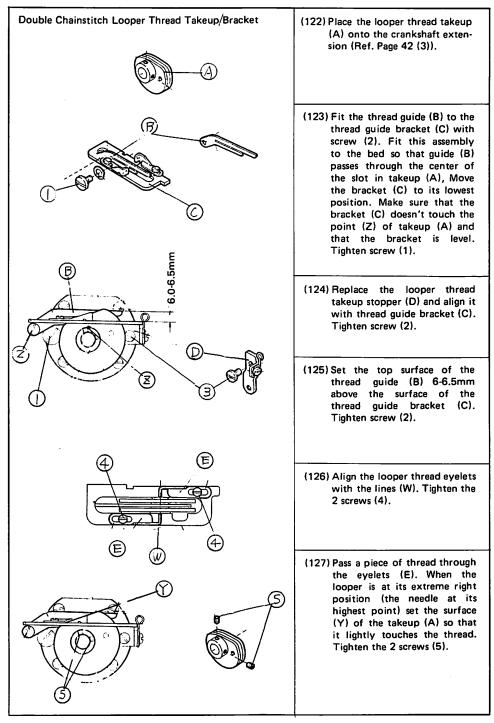
Double Chainstitch Needle Guard (Front, Rear)	(101) Fit the needle guard (rear) (A) or (B) into the position shown by the arrow and light- ly tighten screw (1) or (2) accordingly.
	(102) Move the needle to its lowest position. Set the clearance between the needle and the needle guard (rear) to Omm. Tighten screw (3).
0.1-0.2mm 0.1-0.2mm	(103) Fit needle guard (front). When the needle guard is in its lowest position set the clear- ance between the needle and the needle guard (front) to 0.1-0.2mm. Tighten screw (3).
Silicon Reservoir (Lower)	(104) Replace the silicon reservoir (D). Tighten screw (4). Position (E) so that when the needle is in its lowest position it enters the center of the felt and so that movable needle guards do not touch it. Tighten screw (5).
Needle Plate	(105) Fit the needle plate (F) and lightly tighten screws (6). Move the needles to their lowest position. Move the needle plate and set the needle drop point. Tighten screws (6).





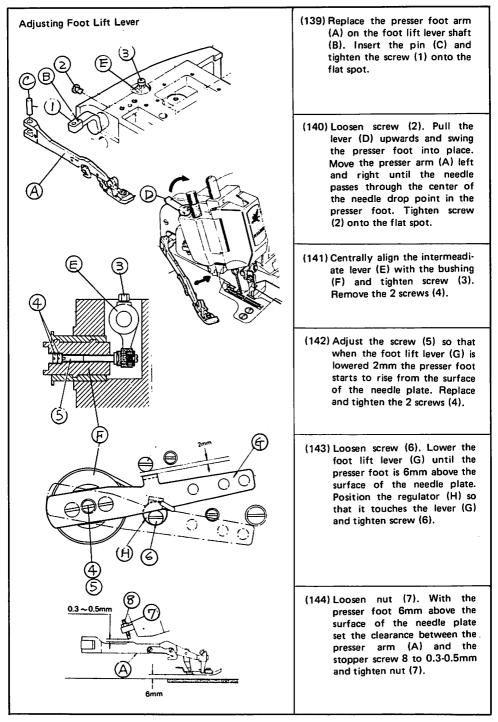
Bed Cover Plate (Right)	(117) Replace bed cover plate (right) and tighten 6 screws. N.B. Fit the silicon tank over hole (1).
Feed Eccentric Cover	(118) Fit to the top of the feed bar guide (left) (F) and tighten the 2 screws.
Bed Cover Plate (Left)	 (119) Replace bed cover plate (left) and tighten 8 screws. Fit bolt head screw into hole (2) and tighten securely. 7mm Spanner.
Foot Lift Lever Shaft	(120) Place the foot lift intermea- diate lever (A) into the hole (B) in the bed. Insert the foot lift lever shaft (C) into the hole (D) in the bed and through hole (E) of the intermeadiate lever. Tighten screw (3).
Feed Adjustment Cover Plate	(121) Replace the cover on the bed and tighten the 6 screws. Press the plug (G) into the upper looper drive shaft hole in the rear of the bed.

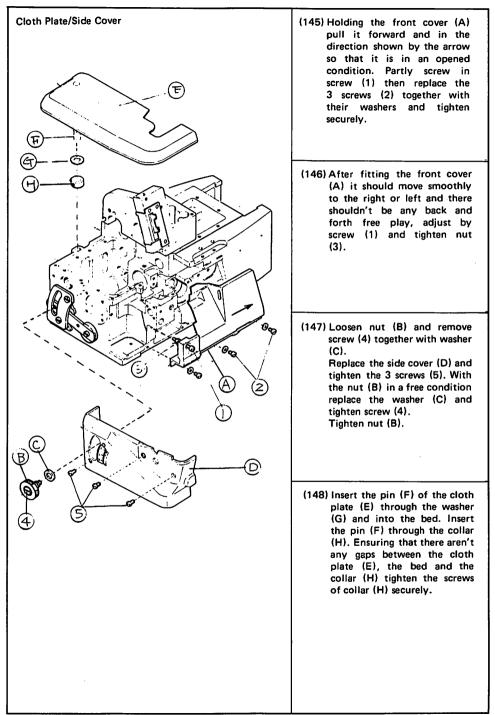




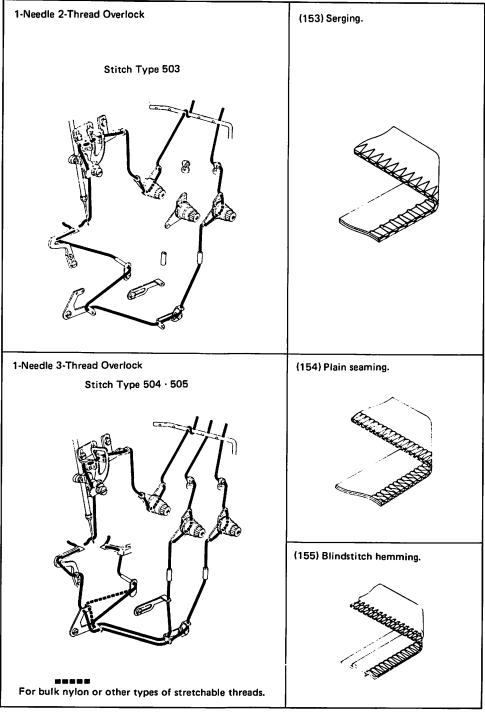
Needle Thread Guide/Face Plate	 (128) Replace the face plate (A) and pushing it to the right tighten screw (1) (only the lower screw). N.B. Fit the silicon tank at the same time. (129) Fit the needle thread guide (B) to the face plate (A). Set it to its uppermost position and
	(130) Fit the needle thread retainer (C) to the needle bar clamp in the center of the face plate (A) and tighten screw (2).
Looper Thread Guides	(131) Press the cap (E) into the housing (D).
	(132) Replace the thread pipe (lower) (F) and tighten screw (3).
	(133) Move the lower looper to its extreme right position. Replace the lower looper thread takeup (G) and set it as shown in the diagram opposite. Tighten screw (4).
Lower Looper in its Extreme Right Position	(134) With the lower looper in its extreme right position. Replace the upper looper thread takeup (H) and (J) and set them as shown in the diagram opposite. Tighten the screws (4) and (5).

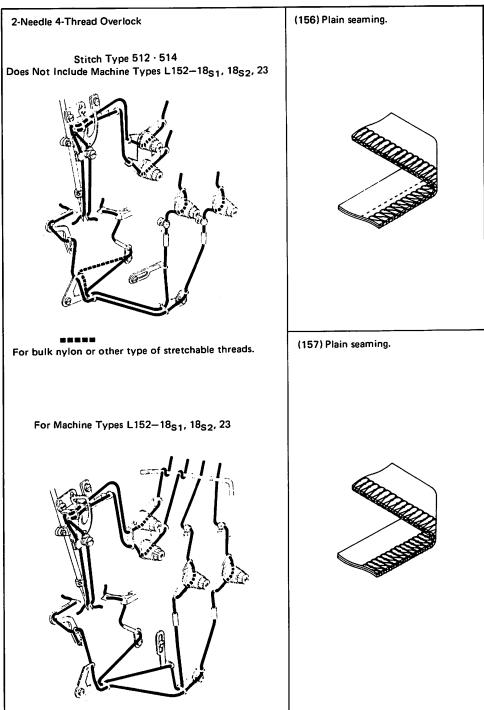
Arm (B)/Fabric Guard	(135) Replace arm (B) (A) and tighten the 3 screws (1) securely. Replace the fabric guard (B) and tighten the 2 screws (2).
Foot Lift Lever	(136) Place the foot lift lever spring (C) onto the bushing (D). Insert the part (Z) into the hole (X) in the bed.
	 (137) Turn the foot lift lever (F) clockwise while inserting it into the bushing (D) and stop at position (E). Hook the part (W) of the spring (C) under the foot lift lever (F). Caution: Do not release the lever (F).
w w z	(138) Turn the lever (F) clockwise so that it touches the regulator (G). Replace the stopper screw (3).

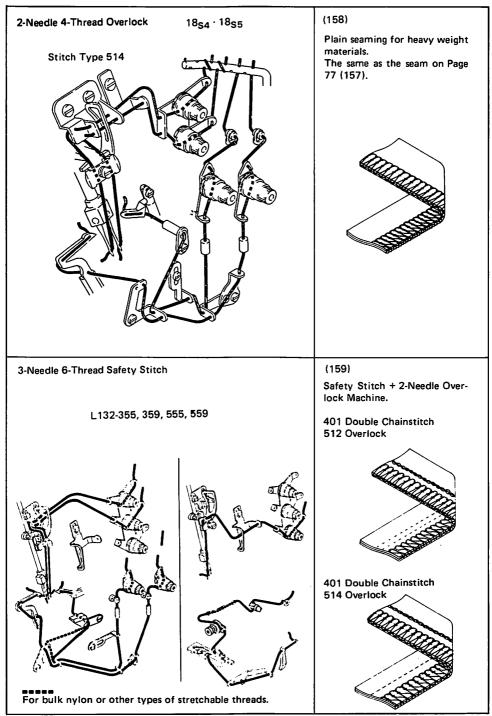




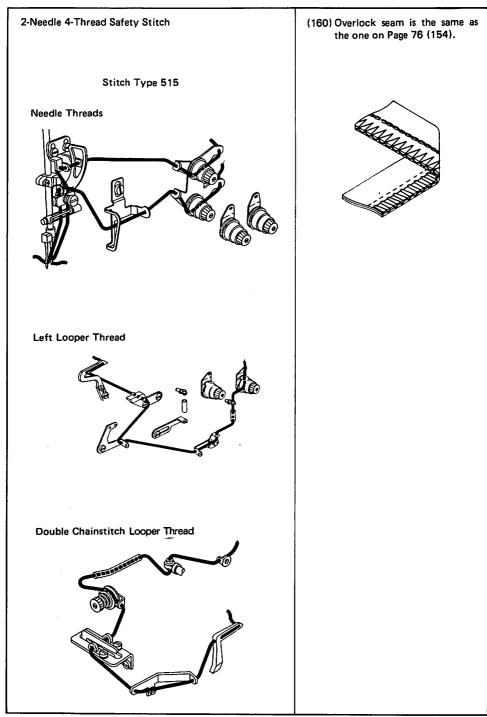
Oil Pump B B	(149) Replace the O ring (A) and insert the oil pump (B) into the hole in the bottom surface of the bed (handwheel side). Tighten the 2 screws.
Oil Splash Guards	(150) Fit the oil splash guards to the bottom surface of the bed and tighten screws securely.
Oil Pan	(151) Replace the oil pan and tight- en the 4 or the 6 screws.
Top Cover	(152) Replace the top cover and tighten the 4 screws.

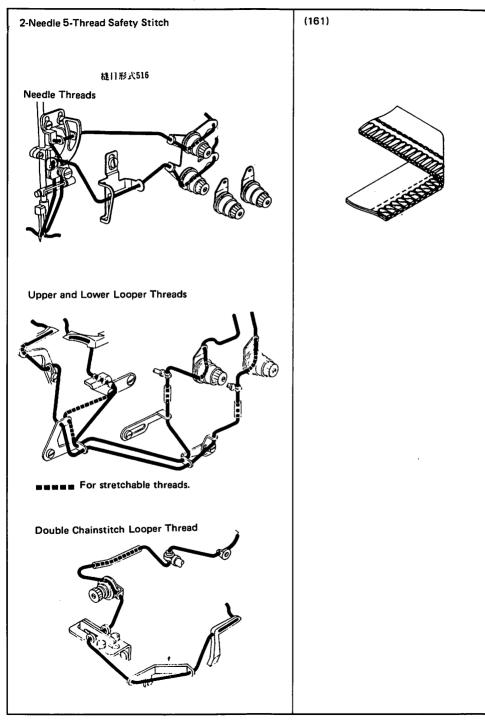


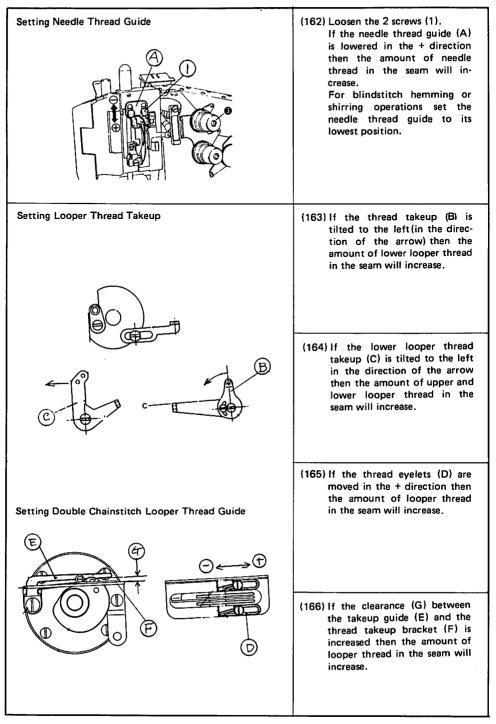


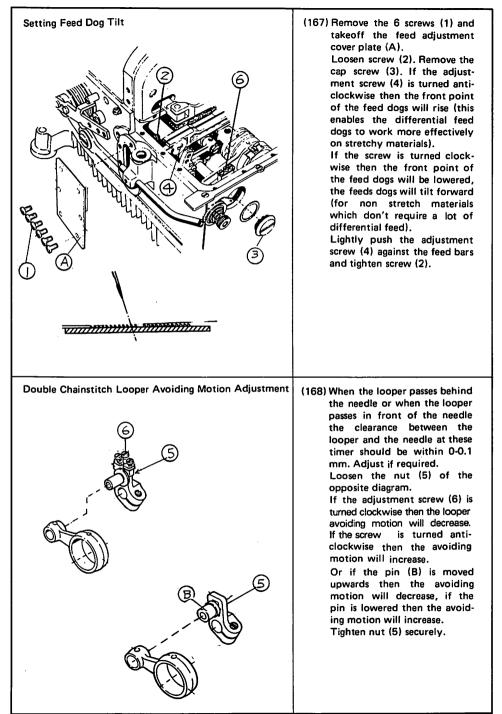


L100 Series

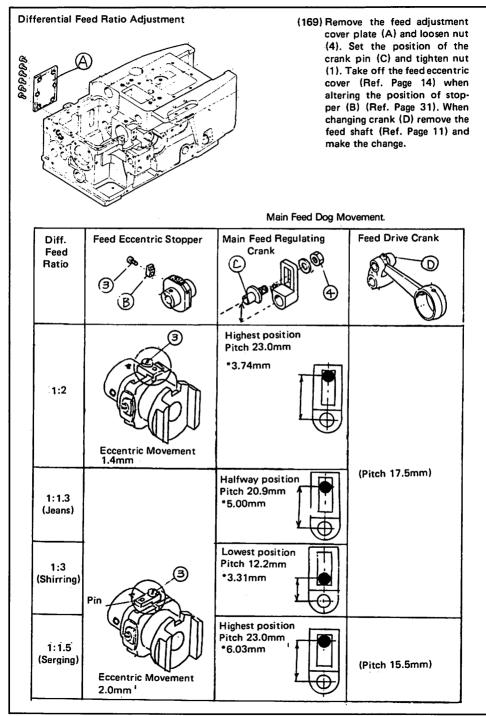


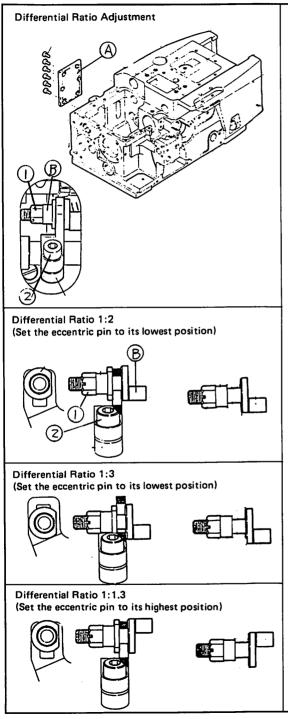






L Series

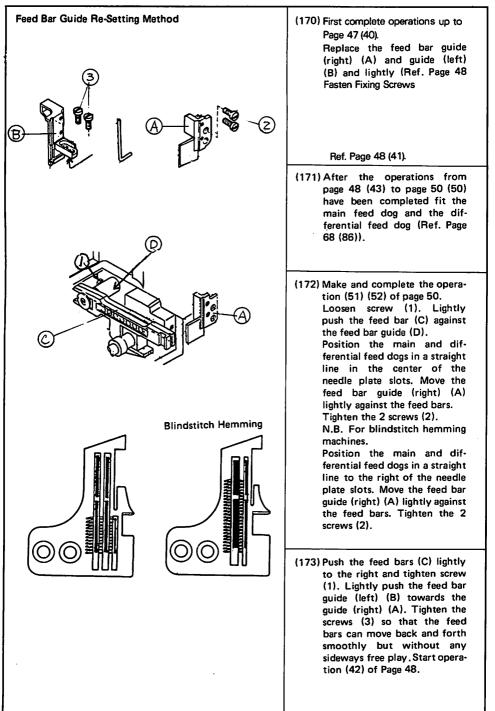


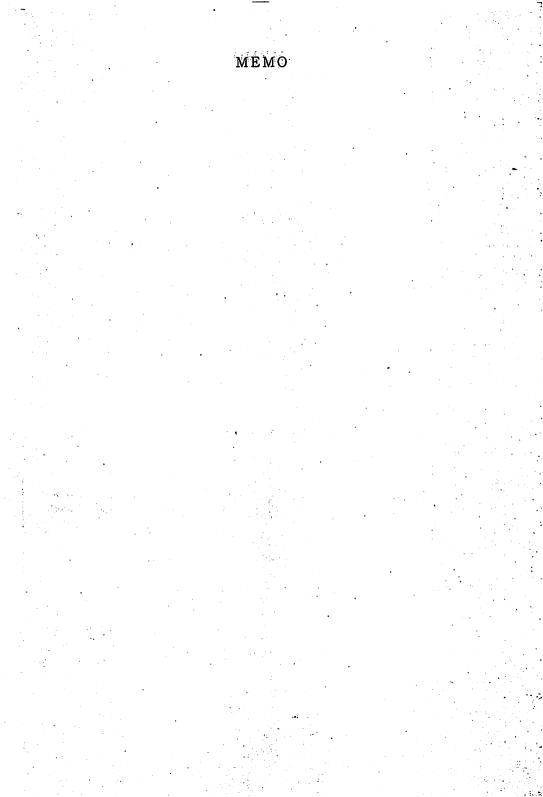


- (169) Remove the feed adjustment cover plate and loosen nut (1). Set the eccentric pin (B) to the designated position and tighten nut (1).
 - Cauton: In cases where the position of nut (1) is bad and a spanner (8mm) cannot be used. Loosen the crank screw (2), then the spanner can be fitted.

When the screw (2) is loosened the position of the main feed dog must be readjusted (Refer to Page 62 (88, 89)).

N.B. The position of the eccentric (B) varies according to the differential ratio.





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