HIGHLEAD

GC1918 -MDZ

Direct Drive Semi-Dry Top Variable Feed Lockstitcher
With Auto Thread Trimmer

Instruction Manual

Parts Catalog

SHANGHAI BIAOZHUN HAILING SEWING MACHINERY CO., LTD.

----- CONTENTS -----

PARTS CATALOG

1. PRECAUTIONS BEFORE STARTING OPERATION

1) Safety precautions

(1) When turning the power on, keep your hands and fingers away from the area around/under the needle and the area around the pulley.

(2) Power must be turned off when the machine is not used,.

(3) The power must be turned off before tilting the machine head, installing or adjusting the machine, or when replacing.

(4) Avoid placing fingers, hairs bars etc. nears the pulley, bobbin winder pulley, when the machine is operation. Injury could result.

(5) Do not insert fingers into the thread take-up cover, under/round the needle, or pulley when the machine is in operation.

(6) If a mini motor cover, finger guard, and/or eye guard are installed, do not operate the machine without these safety devices.

2) Precaution before Starting Operation

(1) If the machine's oil pan has an oil sump, never operate the machine before filling it.

(2) If the machine is lubricated by a drop oiler , never operate the machine before lubricating.

(3) When a new sewing machine is first turned on, verify the rotational direction of the pulley with the power on. (The pulley should rotate counterclockwise when viewed from the pulley.)

(4) Verify the voltage and (single or three) phase with those given on the machine nameplate.

3) Precaution for Operating Conditions

(1) Avoid using the machine at abnormally high temperature (35℃ or higher) or low temperatures (5℃ or lower). Otherwise, machine failure may result.

(2) Avoid using the machine in dusty conditions.

2. SPECIFICATIONS

Material weight		GC1918-MDZ
Max. speed		4000rpm
Stitch length		0 to 4mm
Needle bar stroke		31.8mm
Presser foot clearance	Hand Lifter	4 mm
	Knee lifter	11 mm
Needle type		DB×1 #14
Hook (for thread trimming)		Full rotation automatic lubrication (standard)
Touch back		yes
Thread trimming method		Left knife rotating, right knife fixed engagement type
Working dimensions		300×135 mm

3. PREPARETION BEFORE START TO OPERATE

Adjustment of needle bar stop position

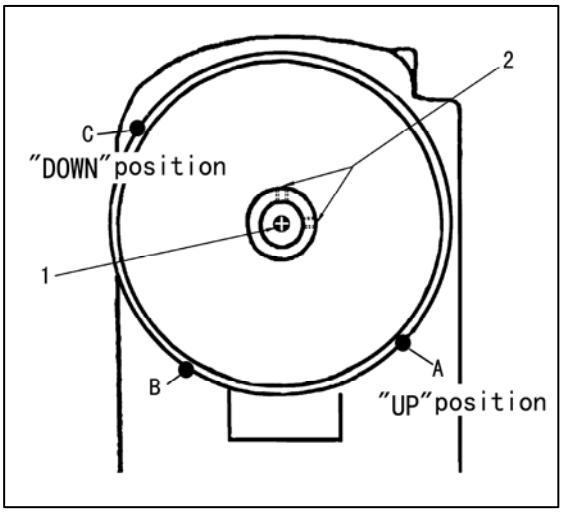
Adjust of "UP" position

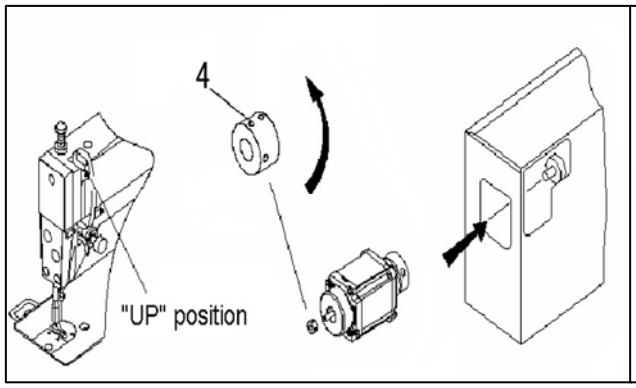
When the pedal is kicked down by heel, the machine stops at "UP" position. If the marks deviate larger than 3mm adjust as follows.

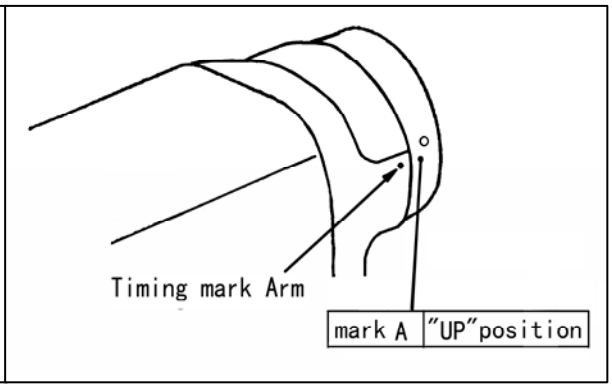
(1) Loosen the screw1 and 2.

(2) Run the machine and stop at "UP" position. Then turn the magnet base counter clockwise until the screws 4 on the upside and then tight the screws.

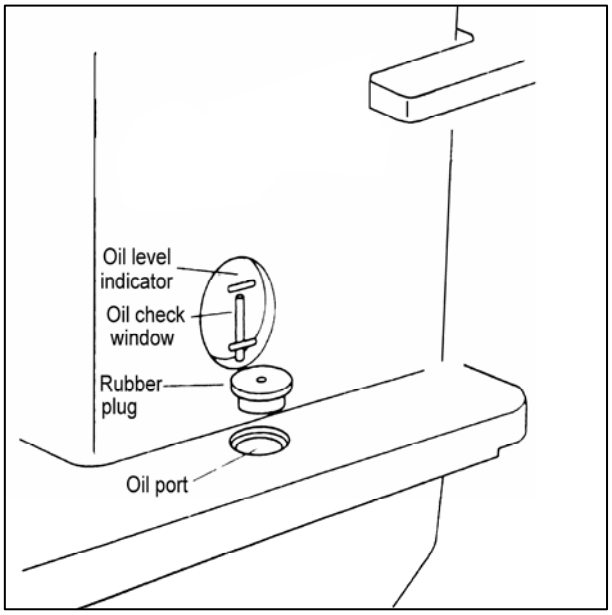
(3) When the 1st mark of pulley is align with the timing mark arm, tighten the screw 2, then tight the screw 1.







4. PRECAUTIONS FOR STARTING TO OPERATE



1) Lubrication

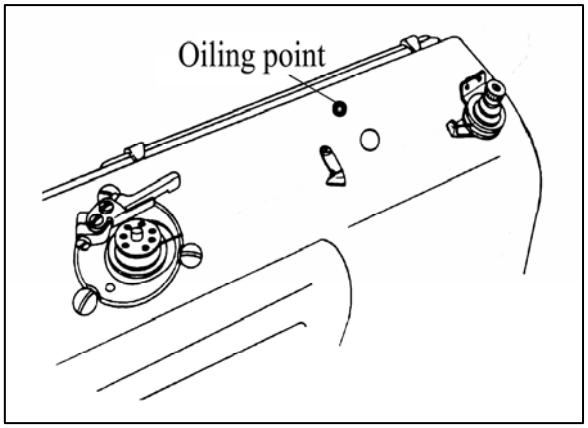
Before starting sewing machine operation, fill oil for hook lubrication into the oil tank.

(1) Remove the rubber plug from the oil port, and fill the oil from the oil port.

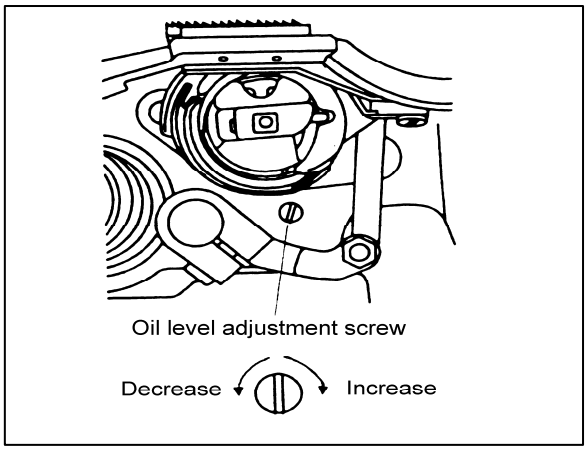
(2) Fill in oil until the tip of the oil level indicator matches the line in the oil check window.

(3) When done filling the oil, set the rubber plug into the oil port.

(4) If the tip of the oil level indicator drops below the line in he oil check window during operation, replenish the oil.

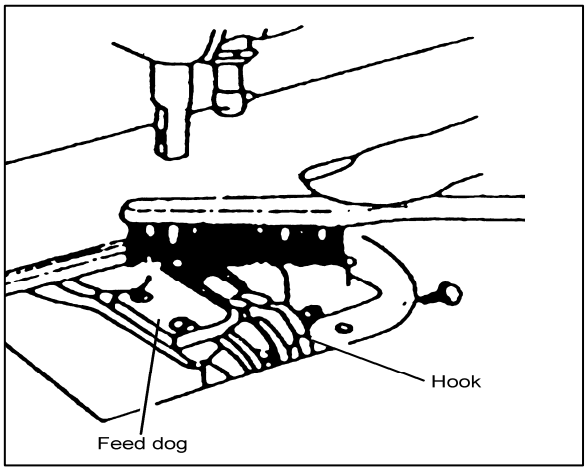


(5) Oiling 15 to 20 drops once a week.



2) Adjustment of the amount of oil for hook

turn the oil level adjustment screw, and adjust amount of oil for hook..

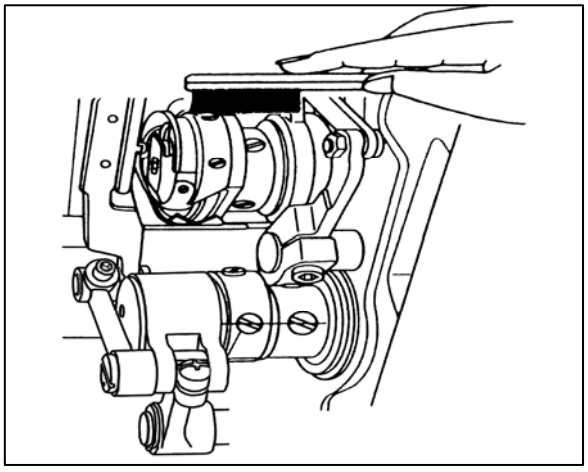


3) Periodical cleaning

a. Machine

(1) Remove the throat plate and clean the feed dog.

(2) Assembling is to be made by screwing in the screw by 2 to 3rotations by hand at first, then tightening them evenly by use of a long size screw driver.



3) Lay down the machine head and clean the hook and inner bobbin case.

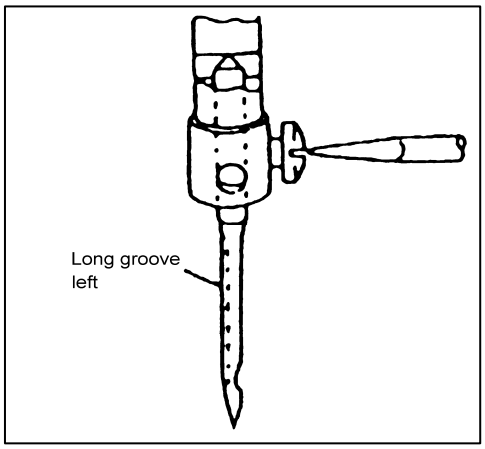
b. Maintenance of motor

Remove dust from the motor filter every one or two month. (If operation is continued with the filter clogged with lint or dust, the motor might overheat.)

c. Control box

Remove dust from the connector (If the connector covered with dust, machine might misoperation.)

5. HOW TO USE THE MACHINE



1) How to attach needle

Note: Before making the following adjustment, be sure to switch off the power source.

Insert the needle up to the bottom of needle clamp and tighten the screw keeping the long groove side of needle forward the left.

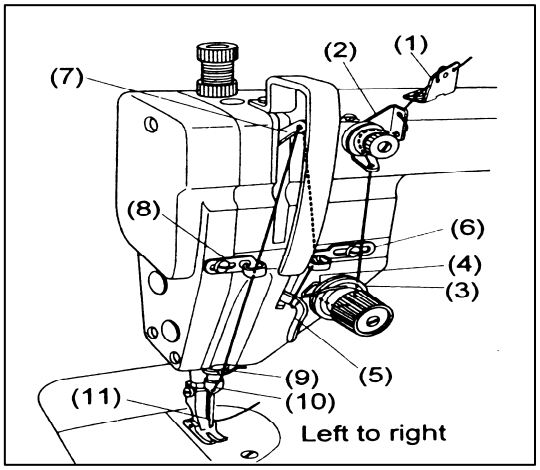
Note: if snapping of thread occurs during back Sewing with polyester threads，it may be avoided by fitting the needle with the long groove Shifted to the front side.

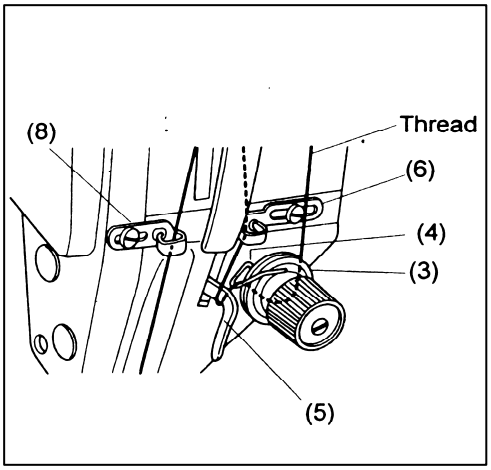
Use DB×1 or DA×1 needle. According to fabric & thread ,please choose the size of needle as follows.

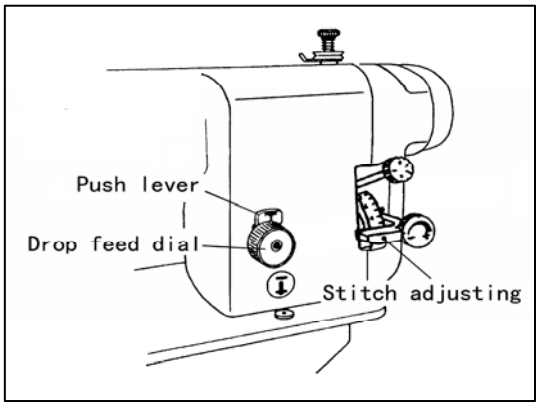
Size of Needle	No. of thread	Fabric
#9	#100 to #80	Extra thin fabric such as de Chin, Georgette, Organdy.etc
#11	#80 to #60	Thin fabric such as Silk, Calico, Poplin. etc.
#14	#60 to #50	General fabrics such as Cotton,Wooden fabric ,etc.
#16	#50 to #30	Thick Cablico,Thick wooden fabric, Water proof cloth, thin leather,ect.
#18	#40 to #20	Thick fabric such as Suiting and Coat material, thin Pouches, Denim , ect.

2) Threading

Raise the thread take-up lever to its highest position and thread the upper thread in the following order.



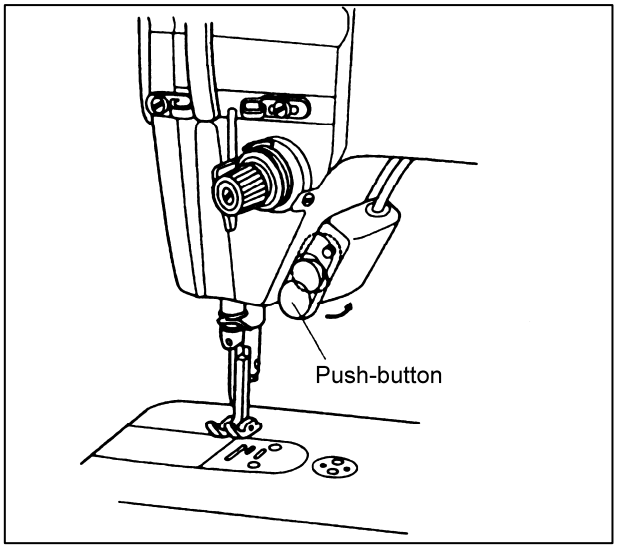




3) Adjusting of stitch length and reverse lever

(1) Rotate the drop feed dial while depressing the reverse lever and then, pressing the push lever, when making the stitch length shorter.

(2) If the reverse lever is depressed, reverse sewing (backward sewing) will take place.



(3)Touchback switch

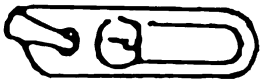
a. With the push-button (touchback switch) pressed lightly during sewing, reverse sewing can be done.

Reverse sewing will take place while the push-button is pressed.

When the push-button is released, reverse sewing turns into forward sewing.

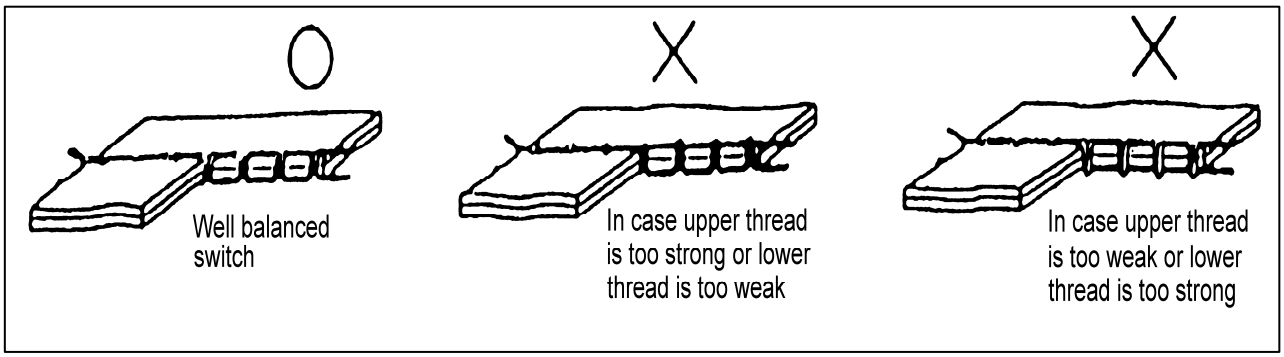
b. When the push-button is turned 180 degrees in the direction of the arrow, the switch will be locked, and backward sewing will not take place even if the button is pressed.

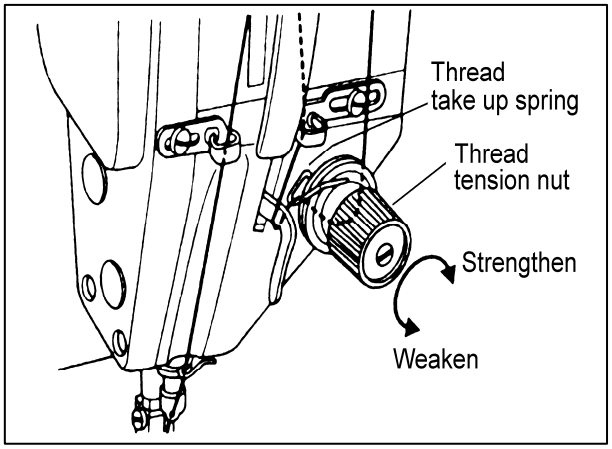
4) Adjusting of the thread guide

	1	2	3
Thread guide position	Left 	Middle 	Light 
Materials	Heavy	Medium	Light
Thread(Ref.)	Polyester Cotton Vinylon #30 or more	Polyester #50 to #60 Cotton Vinylon #50 to #80	Polyester #50 to #60

Refer to the table above, and adjust according to the stitching conditions, the material and thread

5) Adjusting of thread tension





6) Adjusting of upper thread tension

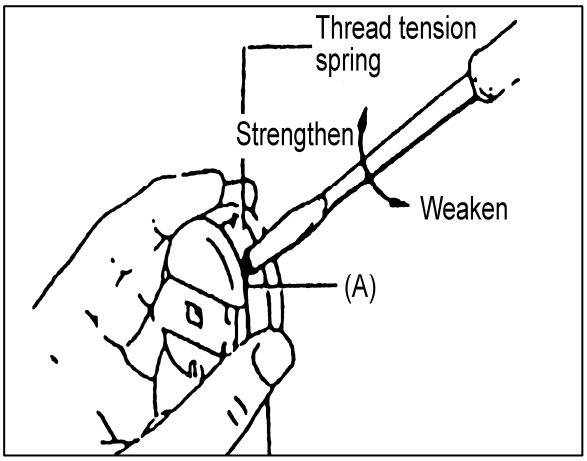
(1) Upper thread tension can be adjusted by thread tension nut.

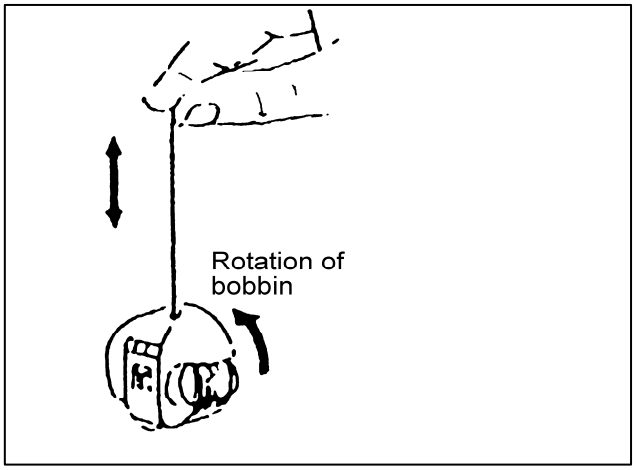
(2) Upper thread is to be adjusted according to the lower thread tension.

(3) For special fabric sewing with special thread, the desired tension can be obtained by adjusting the strength and operating range of thread take-up spring.

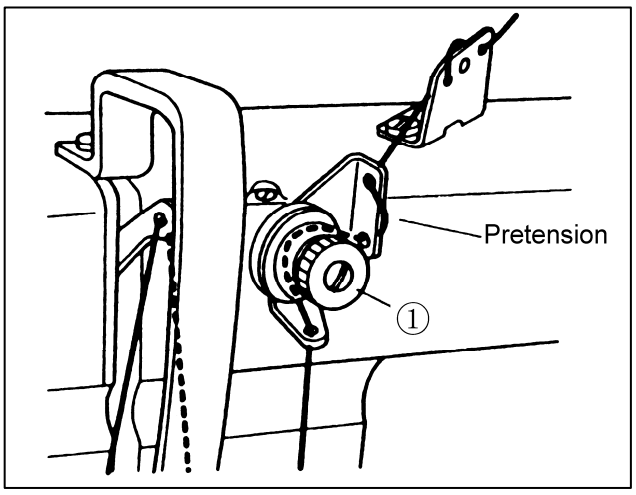
7) Adjusting of lower thread tension

(1) Lower thread tension can be adjusted by screw (A).





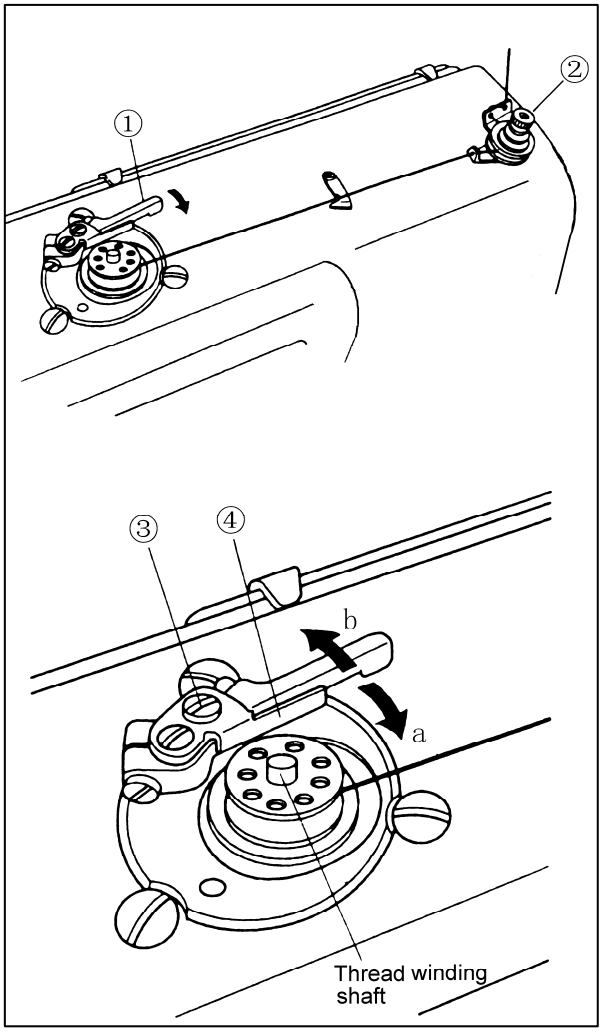
(2) In the case of cotton thread #60, the thread tension can be checked as the following. Hold the end of pulled out thread and if the bobbin case fall slowly, the tension is proper.



8) Adjustment of remaining needle thread length after thread trimming

(1) Turn the pretension nut ① and adjust.

(2) When turned clockwise, the length of thread left in the needle will be short.
When turned counterclockwise, the length of the thread left in the needle will be long.



9) How to wind the lower thread on the bobbin

(1) Press the bobbin onto the thread winding shaft.

(2) Pass the thread for winding thread as shown in the figure, and wind the end of the thread clockwise around the bobbin several times, then wind the thread on the thread adjuster side counter-clock wise several times.

(3) Press lever ① in the direction of the arrow, and start the sewing machine.

(4) The operation will automatically stop when winding is completed.

(5) Adjustment of thread winding strength
Adjust with the thread adjuster nut ②.

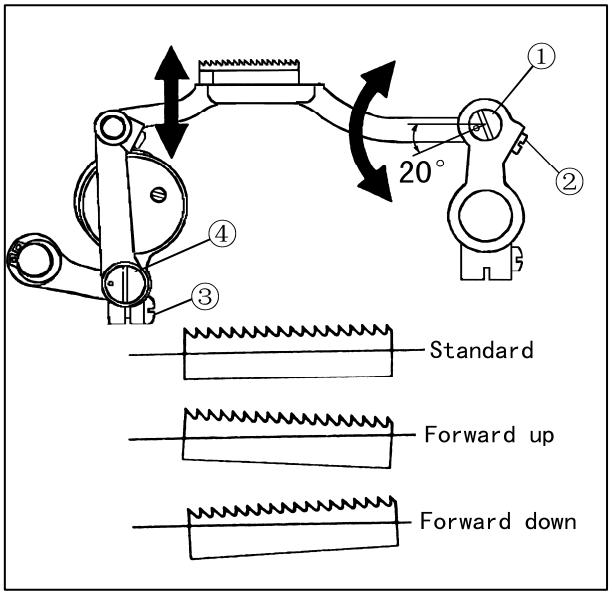
(6) Adjustment of thread winding amount
Adjust by loosening screw ③ and moving the adjustment plate ④

a. The thread winding amount will decrease when moved in the direction of a.

b. The thread winding amount will increase when moved in the direction of b.

10) Adjustment of feed dog height and inclination

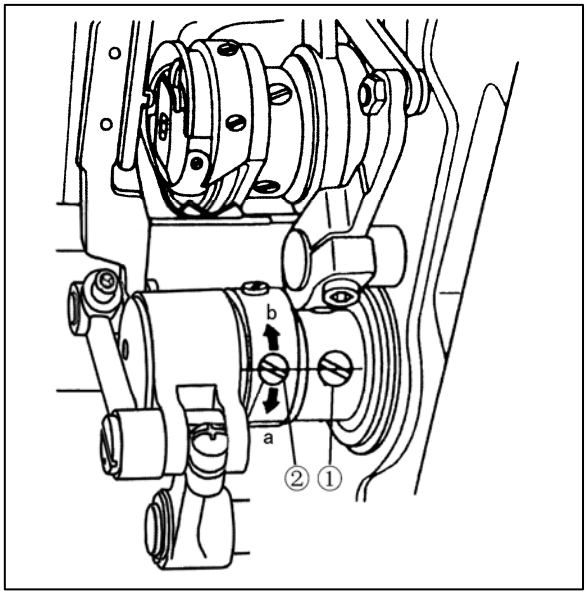
(1) As a standard, the eccentric shaft ① mark on the left of the horizontal feed arm is set to the direct left side, and the feed dog height is set to 0.8mm (maximum) as shown in the figure.



(2) To adjust the feed dog height and inclination, loosen the screw ③ , and turn the eccentric shaft ④ , loosen the screw ② at the left of the horizontal feed arm, and turn the eccentric shaft ①.

(3) When the eccentric shafts are set to "DOWN" position, puckering may be avoided and free loop is less likely to occur.

(4) When the eccentric shafts are set to "UP" position, misalignment of fabrics is less likely to occur and yarn severance may be avoided.



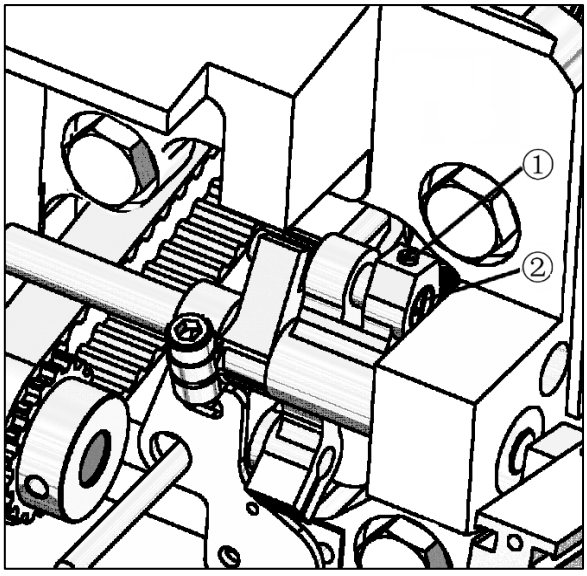
11) Adjustment of feed timing

(1) Adjust by changing the position of the vertical feed eccentric ring.

(2) As a standard, the vertical feed timing Is set to when the screw ① on the bearing bushing is linear with screw ②on the vertical feed eccentric ring.

(3) When the eccentric ring is moved in the direction of a, the vertical feed dog will rise earlier.

(4) When the eccentric ring is moved in the direction of b, the vertical feed dog will rise later.



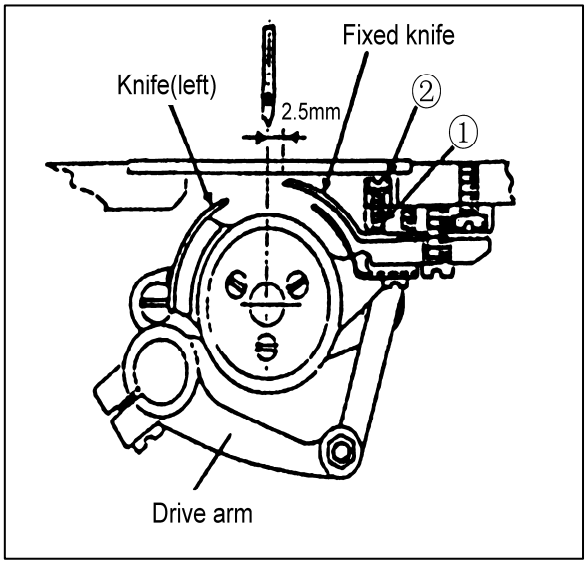
12) Adjustment of forward/backward stitch length

(1) Loosen screw ① on the right of the adjustment arm.

(2) Turn the eccentric shaft ② and adjust.

(3) The forward stitch length will increase and the backward length will decrease when the eccentric shaft ② is turned counterclockwise.

(4) The forward stitch length will decrease and the backward length will increase when the eccentric shaft ② is turned clockwise.



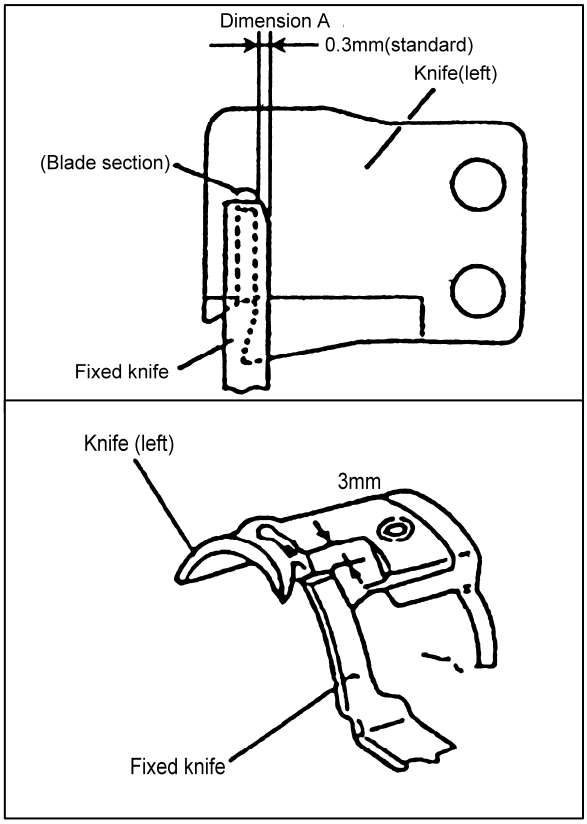
13) Adjustment of knife engagement

a. Position of fixed knife

(1) As a standard, the dimension between the fixed knife's end and the needle center is 2.5mm.

(2) The standard relation of the knife (left) and fixed knife is shown in the figure. As a standard, Dimension A is 0.3mm.

(3) When Dimension A is too large, the three piece of threads will be cut, and can cause the needle thread to come out from needle after trimming. If too small, the thread may not be trimmed correctly.



(4) Adjust by adjusting the installation of the fixed knife.

b. Knife engagement amount

(1) When the sewing machine is rotated while the solenoid is activated, the knife (left) will be rotated by the thread trimming cam.

As a standard, the knife engagement amount should be 1.5 to 2.0mm when the knife (left) moves the most.

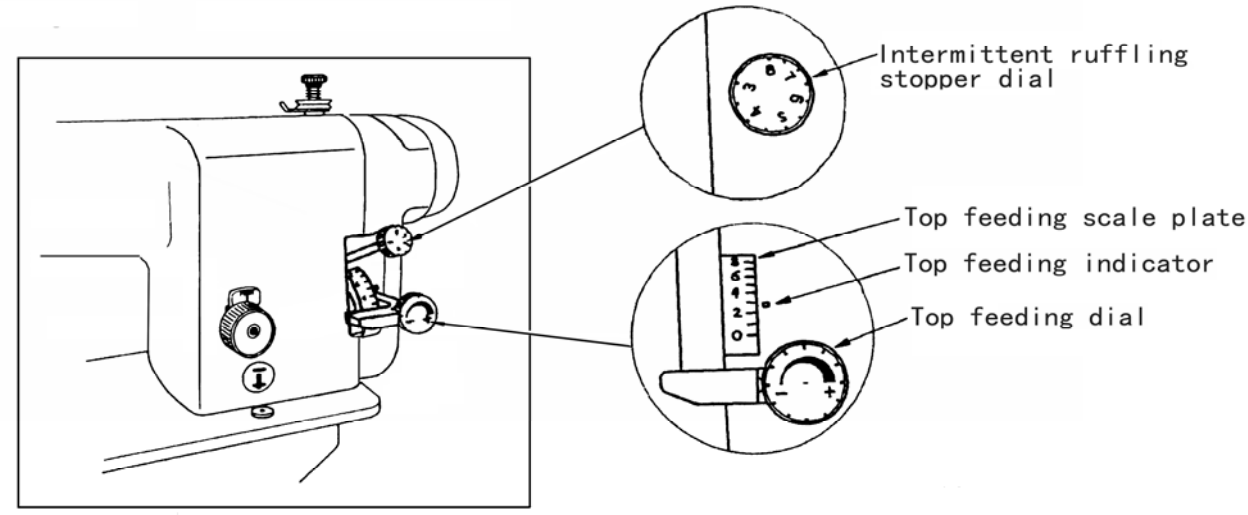
(2) Adjust by adjusting the installation of the drive arm.

c. Adjustment of knife engagement pressure

(1) As a standard, the knife (left) and fixed knife should start contacting at the position shown in the figure.

(2) To adjust the engagement pressure, loosen the lock nut ② and then adjust the adjustment screw ①.

14) Adjustment of top feeding



(1) The top feeding amount will increase when turning the top feeding dial clockwise ((+) side), and decrease when turning counterclockwise ((-) side). It may be possible to make the magnitude of the top feeding amount the standard aim, in accordance with the position of the top feeding indicator o the top feeding scale plate.

(2) The intermittent ruffling stopper dial, regulates the maximum top feeding amount, when using the intermittent ruffling sewing unit (option).

(3) Set the intermittent ruffling stopper dial to MAX.(8 mm) in case of no intermittent ruffling sewing unit (option) used.

(4) Set the intermittent ruffling stopper dial to MAX. as follows:

a. Set the top feeding dial to 3 or more.

b. Turn the intermittent ruffling stopper dial clockwise fully.

c. The position, such as the dial strikes and does not turns any more, is “MAX.” position. (The scale "8" comes just above.)

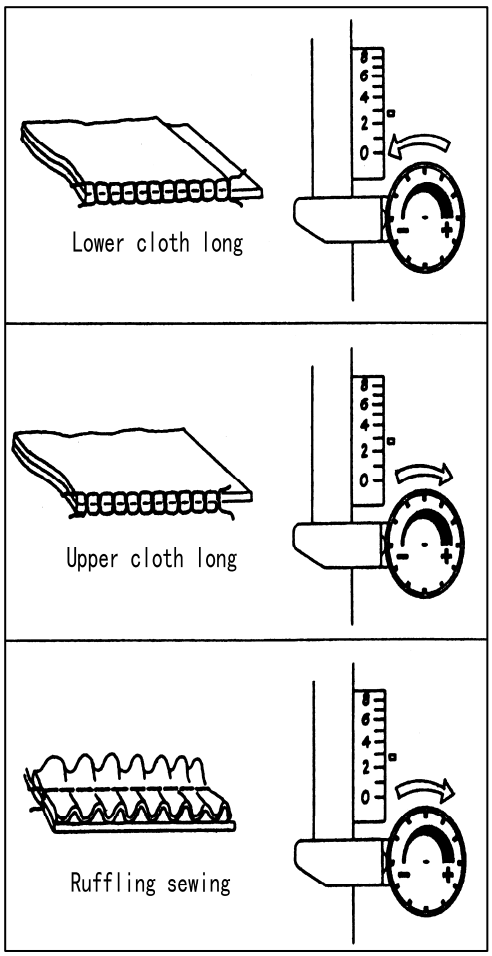
d. Reset the top feeding dial to the desired scale.

15) Adjustment of sewing shift

(1) In case of the lower cloth longer at the sewing end:
Adjust the sewing shift by turning the top feeding dial counterclockwise ((-) side).

(2) In case of the upper cloth longer at the sewing end:
Adjust the sewing shift by turning he top feeding dial clockwise ((+) side).

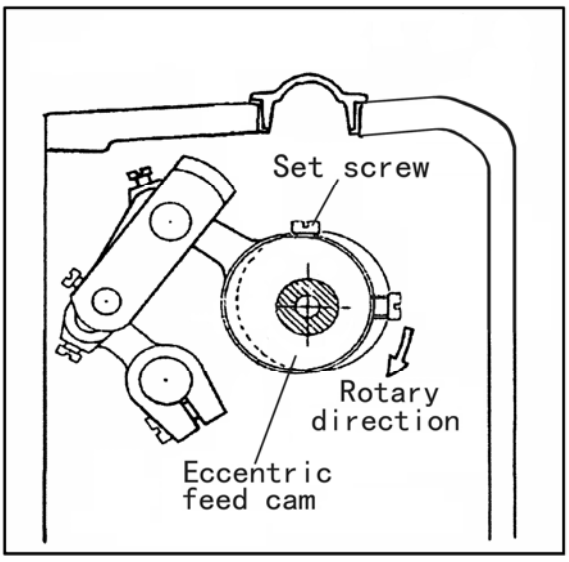
(3) Ruffling sewing
Turn the top feeding dial clockwise ((+) side) with using pusher type gauge and separator.
The ruffling sewing is possible by increasing the top feeding amount.



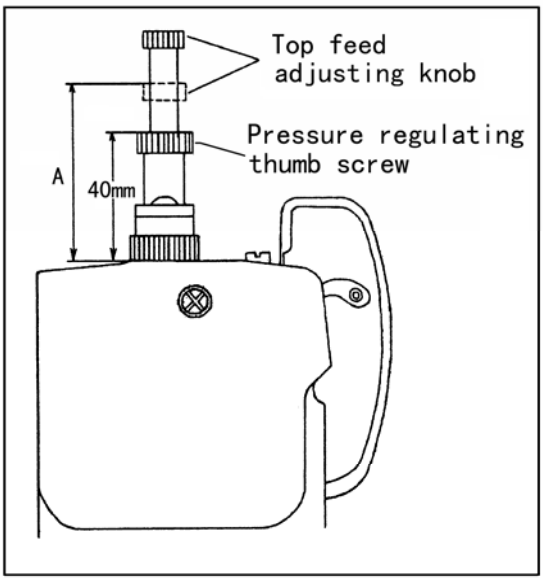
16) Adjustment of feed timing

(1) When the thread take-up, set the second screw of cam up.

(2) When regulation, open rubber plug in the back, adjust The installed position of the cam.



17) Presser adjustment of top feed dog



(1) Press down the top feed adjusting knob. The presser to the top feed dog will become stronger when turning . the knob clockwise, and weaker when turning counter-clockwise. (Rotate the top feed presser adjusting knob in such condition as engaged firmly, after depressing downward.)

(2) The height A is approx. 51 mm as standard, when the top feed adjusting knob is depressed downward, with the presser foot bottom contacted to the throat plate after dropping the presser foot down.

(3) The stronger the top feed dog pressure becomes, the better the top feed efficiency will become. The weaker the top feed dog pressure becomes, the worse the top feed efficiency will become.

(4) It should be avoid to make the top feed dog pressure stronger too much, because the cloth may result in slip or damage due to the presser foot lifted up by the top feed dog.

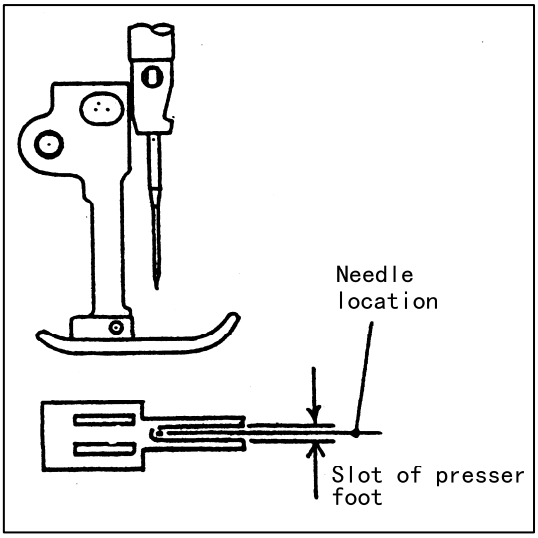
18) Position adjustment for presser bar base

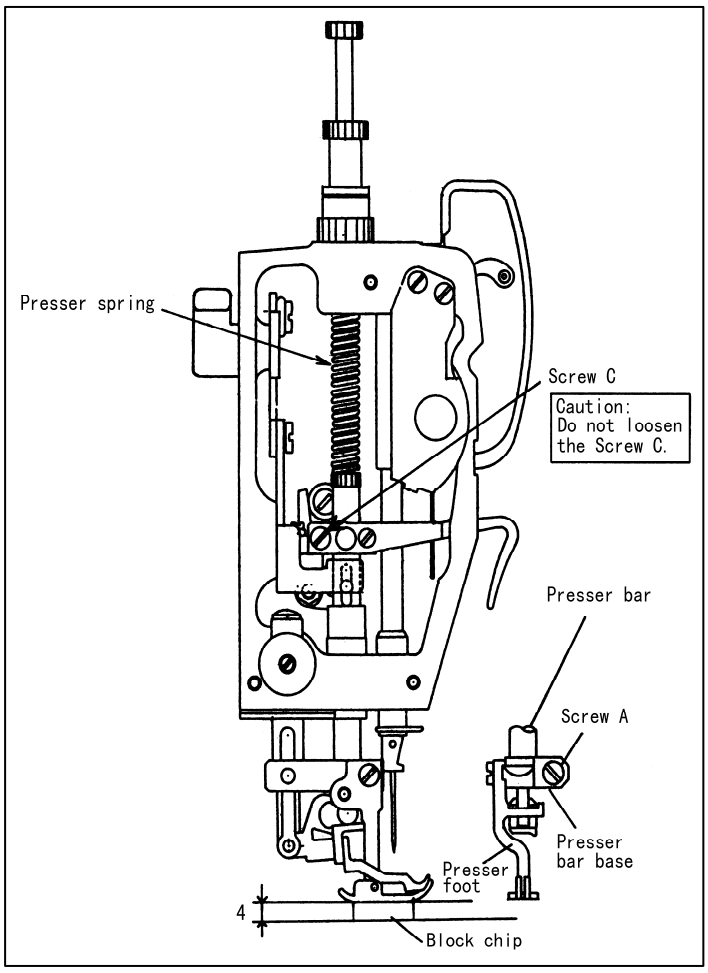
(1) Set the feed dog position lower then the needle plate surface.

(2) Raise the presser foot lifter.

(3) Insert the 4 mm block chip between the presser foot and the needle plate.

(4) Fasten the screw A of the presser bar base so that the bottom of the presser foot touch the 4mm block chip.

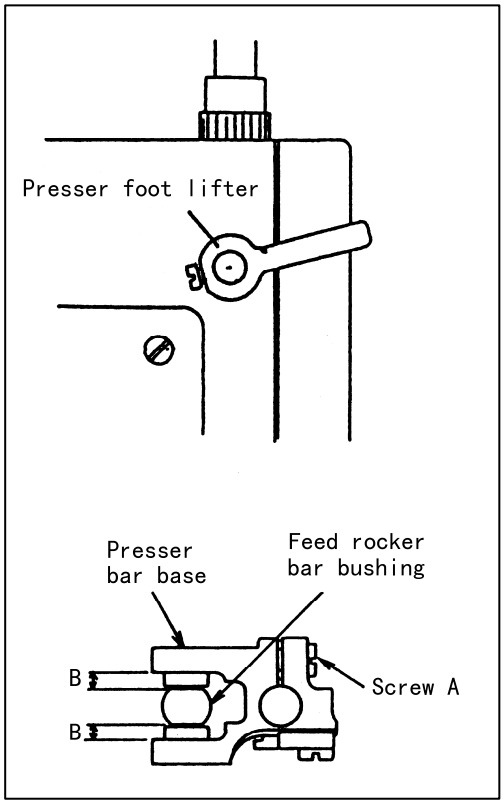




(5) When fasten the screw A of the presser bar base, adjust the clearance B between the feed rocker bar bushing and the presser bar base evenly and set the presser foot in proper condition that the needle position is on the center line of the slot of the presser foot.

(6) Make sure the presser bar base can be moved up and down smoothly by removing the presser spring. If it can not move smoothly, adjust again with same procedures mentioned above.

(7) Set back the presser spring.



19) Gauge installation

(1) Gauge removal

a. Remove the needle by loosening the needle set screw A.

b. Remove the presser foot by loosening the presser foot set screw B. (It is very easy to remove the presser foot by raising the Top feed dog up.)

c. Remove the Top feed dog by removing the Top fed dog sescrew C.

d. Remove the throat plate by removing the throat plate set screw D. (It is very easy to loosen or tighten the throat plate set screw D by using the driver plate included in the accessories.)

e. Remove the Drop feed dog by removing the Drop feed dog retaining screw E.

(2) Gauge installation

a. The installation should be conducted in the reverse order of the gauge removal.

b. Confirm the height of the Drop feed dog after installation.

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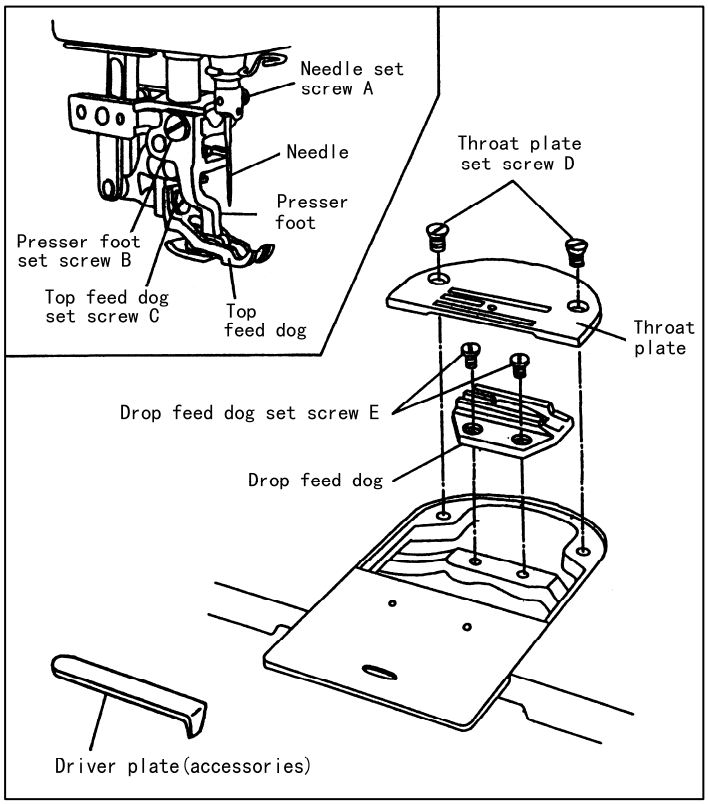


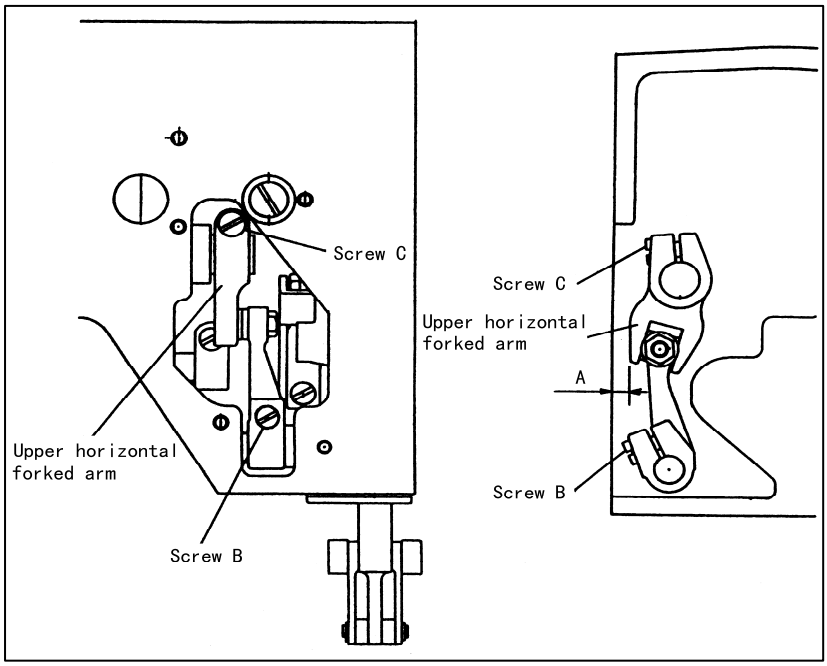
20) Adjustment of upper horizontal forked arm

(1) Set the drop feed dial to "3", and the intermittent ruffling stopper dial and the Top feeding dial to MAX. (8), respectively.

(2) The clearance A between the upper horizontal forked arm and the arm (the side cover attaching surface) is to be adjusted to approx. 5.5 mm, when the lower end of the upper horizontal forked arm comes nearest to the left side.

(3) The adjustment should be conducted at the setscrew C by loosening the screw B.

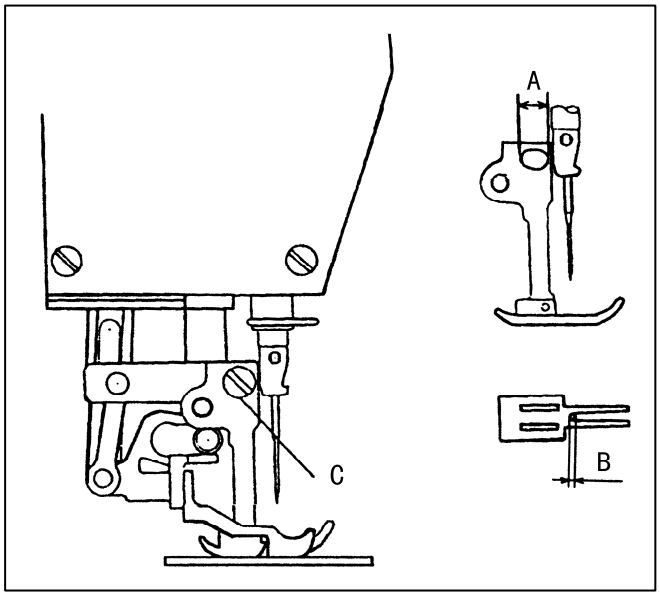
(4) Tighten the screw B and screw C securely after adjusting.



21) Adjustment of front back positions for presser foot

(1) the attaching hole A is a elongated hole.

(2) The distance B between the presser foot long groove and the needle drop center is to be adjusted to approx. 1 mm , when installing the presser foot by using the screw C.



22) Adjustment of clearance between top feed dog and presser foot

(1) Set the top feeding amount to MAX.(8 mm) position.

(2) Rotate the pulley, until the clearance A (the clearance between the top feed dog and the presser foot, when the top feed dog comes nearest to the left side, in case of the pusher type gauge) or the clearance B (the clearance between the top feed dog and the presser foot, when the top feed dog comes nearest to the right side, in case of the puller type gauge) will become the minimum.

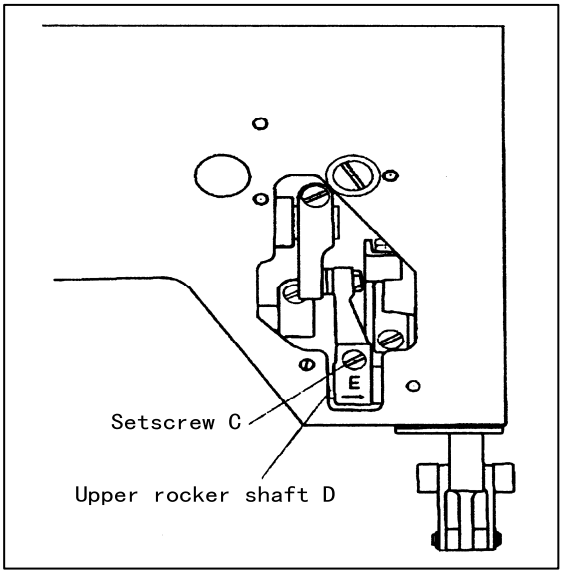
(3) Remove the side cover from the back side of the arm.

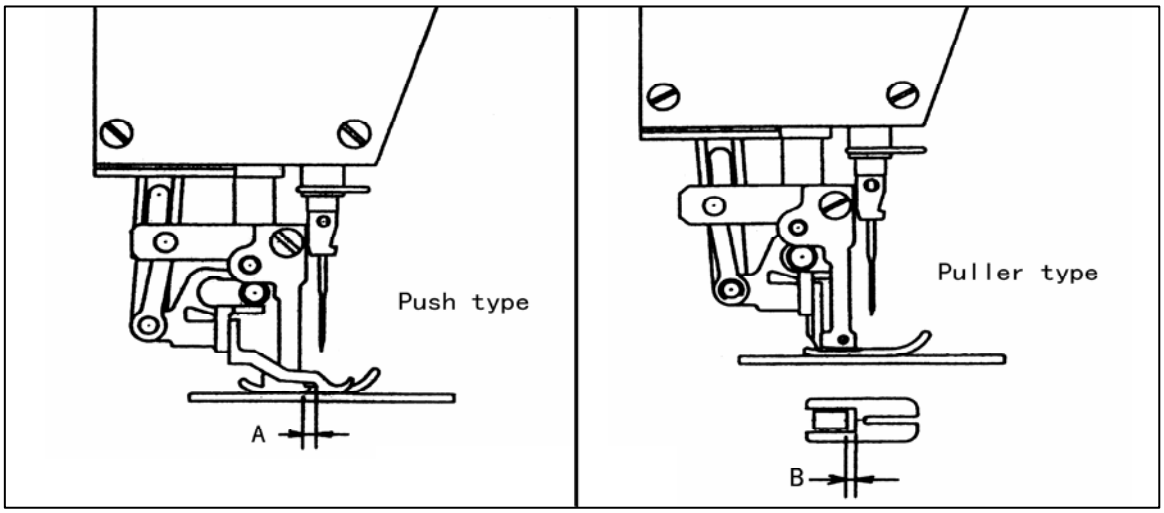
(4) Loosen the setscrew C on the upper horizontal arm.

(5) Move the top feed dog, so that the dimension A (in case of the pusher type gauge) or the dimension B (in case of the puller type gauge) becomes 1.0 mm.

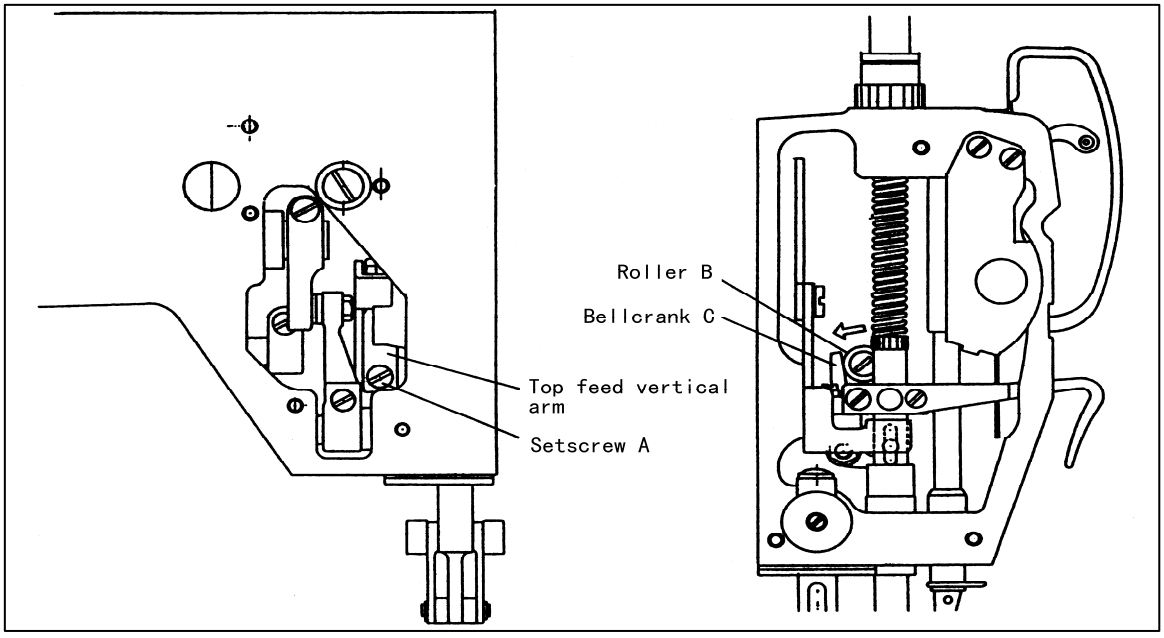
(6) Tighten the setscrew C on the upper horizontal arm.

Caution: It is recommended to tighten the setscrew C, while pushing the upper horizontal arm lightly to the direction of the arrow mark E so that no play occurs on the upper rocker shaft D to in the direction of the thrust.





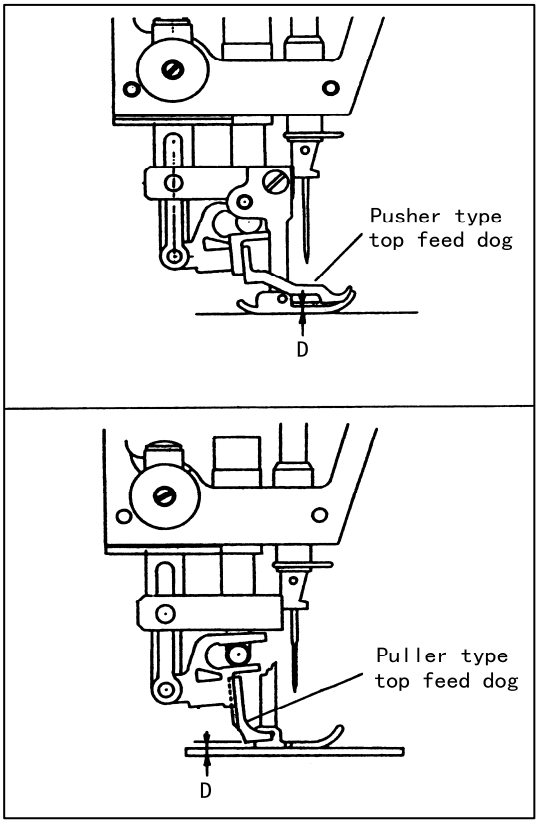
23) Adjustment of vertical motion for top feed dog



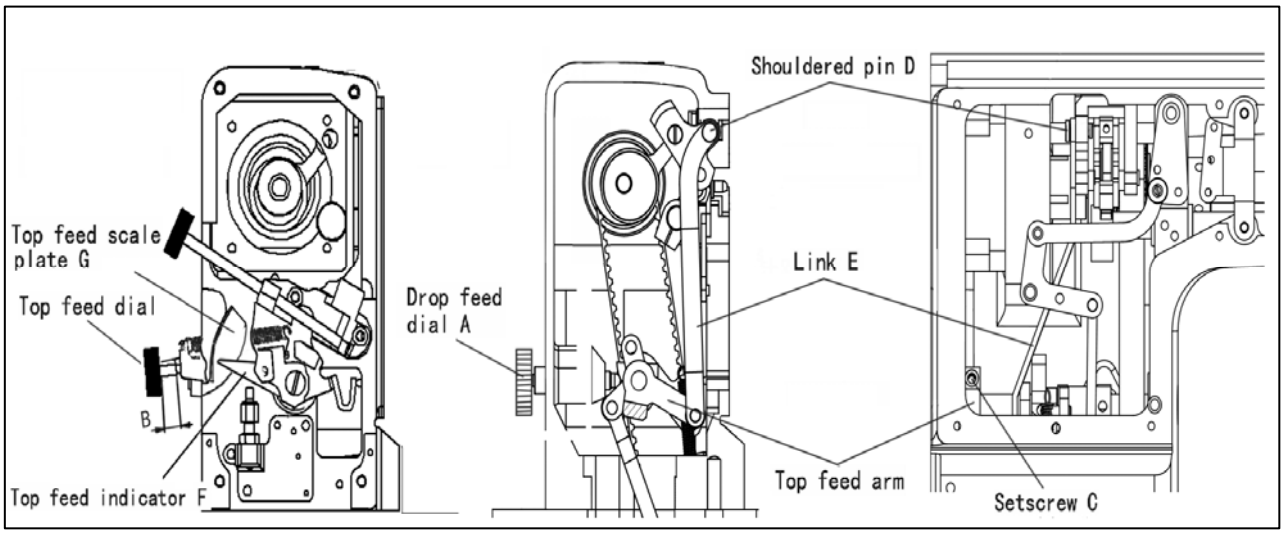
(1) Remove the side cover from the back .side of the arm.
(2) Set the horizontal feeding amount of the top feed dog to approx. 3 mm.
(3) Set the top feed dog at the most highest position by turning the pulley.
(4) Loosen the setscrew A on the top feed vertical arm.
(2) Adjust the rising dimension D with the roller B on the top feed vertical arm pushing the bell crank C, so that it becomes the dimensions as follows:

In case of the pusher type top feed dog	3.0 mm
Incase of the puller type top feed dog	1.6 mm

(6) Tighten the setscrew A securely after adjusting.



24) Adjustment of top feed arm and top feed lever



(1) Set the drop feed dial A to "0".
(2) Adjust the dimension B to 6.5 mm or more by turning the top feed dial.
(3) Loosen the setscrew C on the top feed arm.
(4) Adjust the link E up and down so that the shouldered pin D will be arranged sideways.
(5) Align the top feed indicator F on the top feed lever with the zero point on the top feed scale plate.
(6) Tighten the setscrew C on the top feed arm securely.

25) Intermittent ruffling unit operating method

(1) Operating method

a. When it comes to the position to make the ruffle sewing, the ruffling sewing can be done by operating Pneumatic Button 1.

b. As the pedal is reverted, it returns to the ordinary sewing.

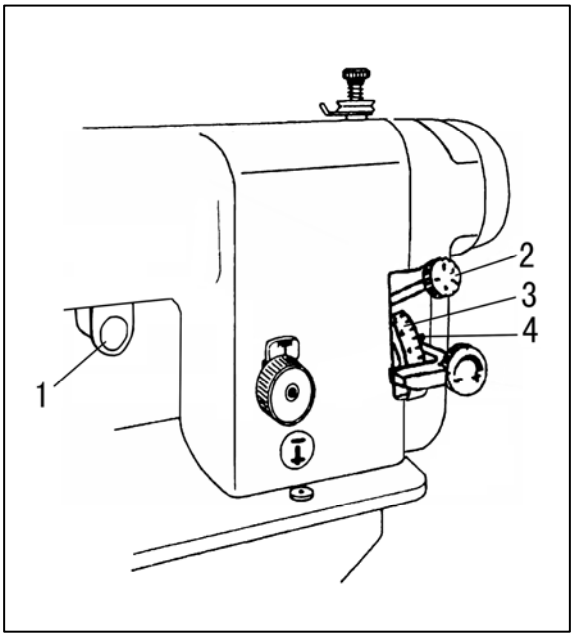
(2) Adjustment of ruffling amount

a. Press Pneumatic Button 1 and confirm the top feeding indicator 4 moves.

b. The value indicated with the indicator 4 when Pneumatic Button 1 is not operated, means the upper feed pitch under the ordinary sewing state.

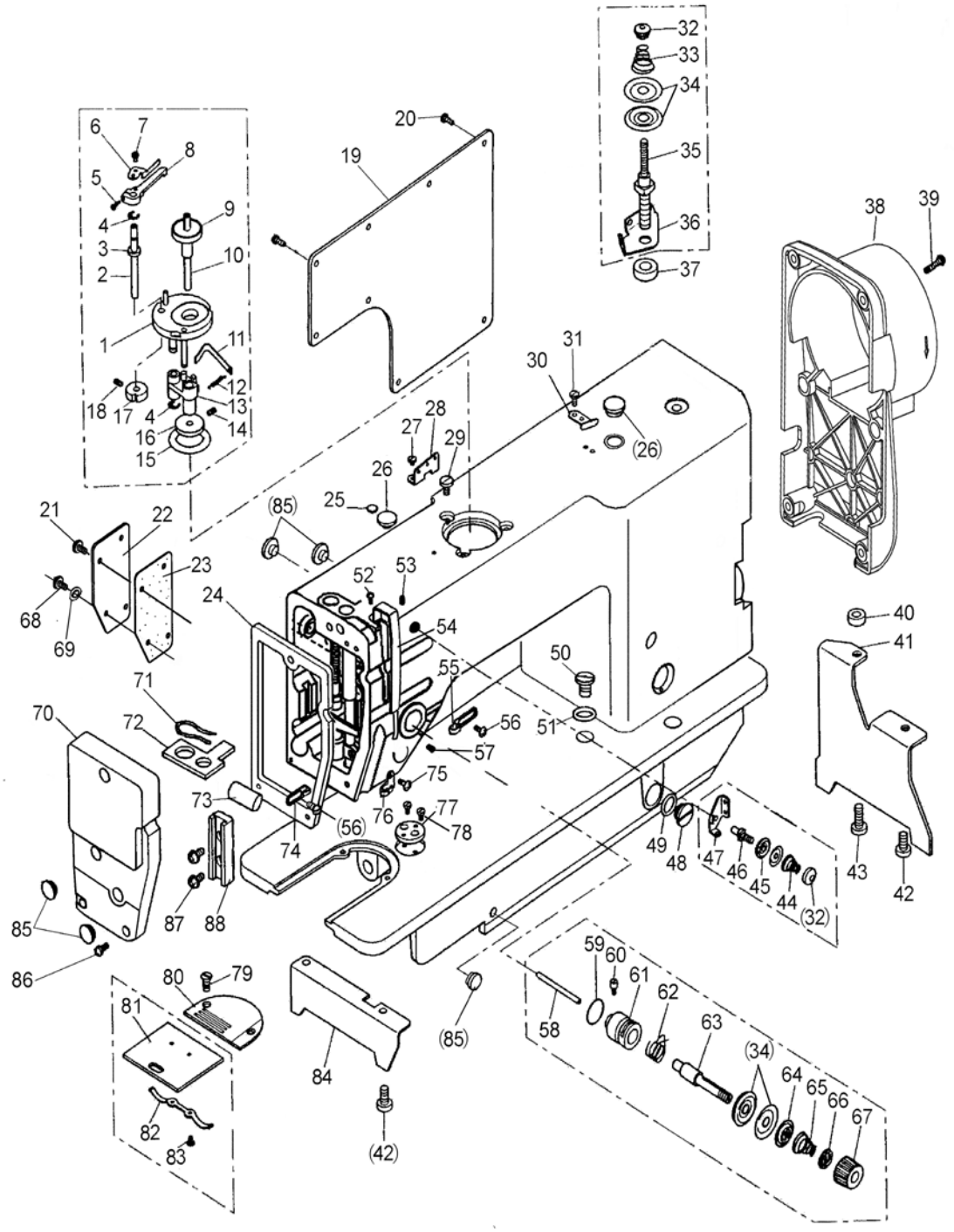
c. The value indicated with the indicator 4 when the Pneumatic Button 1 is fully pressed, means the max. upper feed pitch at the intermittent ruffling sewing.

d. Max. upper feed pitch at the intermittent ruffling sewing is adjusted by turning the intermittent ruffling stopper dial 2. The pitch is extended with a right turn while it is reduced with a left turn.



e. To confirm the max. upper feed pitch at the intermittent ruffling sewing, press Pneumatic Button 1,will watching the value of the indicator 4 pointed on the scale plate 3.

A. ARM BED AND IT'S ACCESSORIES



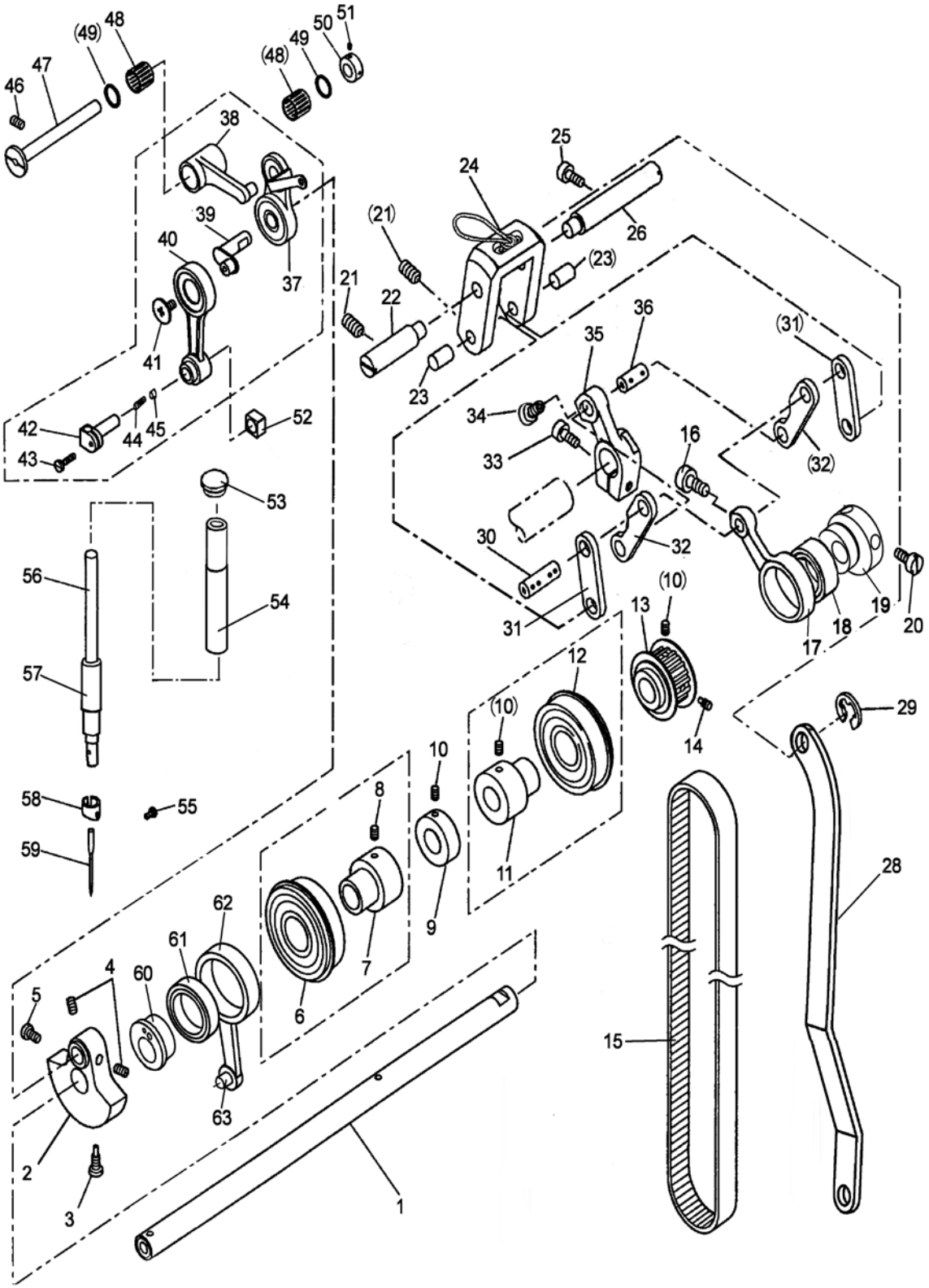
A. ARM BED AND IT'S ACCESSORIES

Fig. No.	Part No.	Description	Pcs.	Remarks
A01	HB2252N072	Bobbin winder base	1	
A02	H6723N8001	Cam shaft	1	
A03	H6722N8001	Wash	1	
A04	H007013050	E-type stop ring	2	
A05	HA100H2150	Screw	1	
A06	H6721N8001	Adjust plate	1	
A07	H3200B2100	Screw	1	
A08	H6720N8001	Spanner	1	
A09	H6717N8001	Seat	1	
A10	H6716N8001	Shaft	1	
A11	H6715N8001	Spring	1	
A12	H6724N8001	Spring	1	
A13	H6710N7101	Winch	1	
A14	H431040060	Screw	2	
A15	H6719N8001	Rubber rub	1	
A16	H6718N8001	Rub ring	1	
A17	H6725N8001	Cam	1	
A18	H431050060	Screw	1	
A19	HE71B88001	Side cover	1	
A20	HA300B2170	Screw	7	
A21	HA300B2170	Screw	2	
A22	HM01B58001	Arm side cover	1	
A23	HD544B8001	Arm side cover gasket	1	
A24	HE71B78001	Gasket for face plate	1	
A25	HA300B2090	Rubber plug	1	
A26	HA307B0673	Rubber plug	2	
A27	HA700B2060	Screw	1	
A28	HA700B2050	Thread guide	1	
A29	H3107G0662	Screw	3	
A30	H6756B8001	Thread cutter	1	
A31	H6762B8001	Screw	2	
A32	HA710B0671	Nut	2	
A33	H6739B8001	Thread tension spring	1	
A34	HA310B0705	thread tension discs	4	
A35	H6735B8001	Screw	1	
A36	H6736B8001	Thread guide	1	
A37	H6737B8001	Spacer	1	
A38	HM00P78001	Motor cover	1	
A39	HZ11050200	Screw	4	
A40	H6760B8001	Spacer	1	
A41	H8844B8001	Bed stud (right)	1	
A42	HA104F0654	Screw	3	
A43	HA800F2020	Screw	2	
A44	HA710B0672	Pre-tension spring	1	

A. ARM BED AND IT'S ACCESSORIES

Fig. No.	Part No.	Description	Pcs.	Remarks
A45	HA112B0693	Thread tension discs	2	
A46	HA710B0673	Screw	1	
A47	HA710B0674	Thread guide	1	
A48	H6764B7101	Screw assy	1	
A49	H6766B8001	O-ring	1	
A50	H8810P8001	Screw	1	
A51	H8812P8001	Washer	1	
A52	HA300B2160	Screw	1	
A53	HA100B2110	Screw	1	
A54	H6720I8001	Thread take-up cover	1	
A55	HA100B2140	Thread guide	1	
A56	HA106B0676	Screw	2	
A57	HA300B2080	Screw	1	
A58	H6725B8001	Pin	1	
A59	HA115B7011	O-ring	1	
A60	HA115B0708	Screw	1	
A61	HA310B0703	Thread tension regulator bushing	1	
A62	HA115B0706	Thread take-up spring	1	
A63	HA115B0701	Screw	1	
A64	HA310B0702	Thread tension releasing discs	1	
A65	HA115B0703	Thread tension spring	1	
A66	HA115B7010	Thumb nut revolution stopper	1	
A67	HA310B0701	Thumb nut	1	
A68	HA111G0683	Screw	2	
A69	H3400C2030	Washer	2	
A70	HE71B68001	Face plate	1	
A71	H6732P8001	Holder	1	
A72	H6731P8001	Felt	1	
A73	H3204G0652	Felt	1	
A74	HA106B0675	Thread guide	1	
A75	HA106B0676	Screw	1	
A76	HA500C2060	Thread guide	1	
A77	HA300B2140	Plate for guide	1	
A78	HA300B2130	Screw	2	
A79	HA300B2190	Screw	2	
A80	HD546B8001	Needle plate	1	
A81	HA124B0711	Slide plate	1	
A82	HA324B0711	Spring for slide plate]	1	
A83	HA124B0713	Screw	2	
A84	HA307B0674	Bed stud (left)	1	
A85	HA307B0674	Rubber plug	5	
A86	HA111G0683	Screw	3	
A87	HA300C2030	Screw	2	
A88	H6705H8001	Needle bar connecting linkGuide	1	

B. NEEDLE BAR AND THREAD TAKE-UP MECHANISM



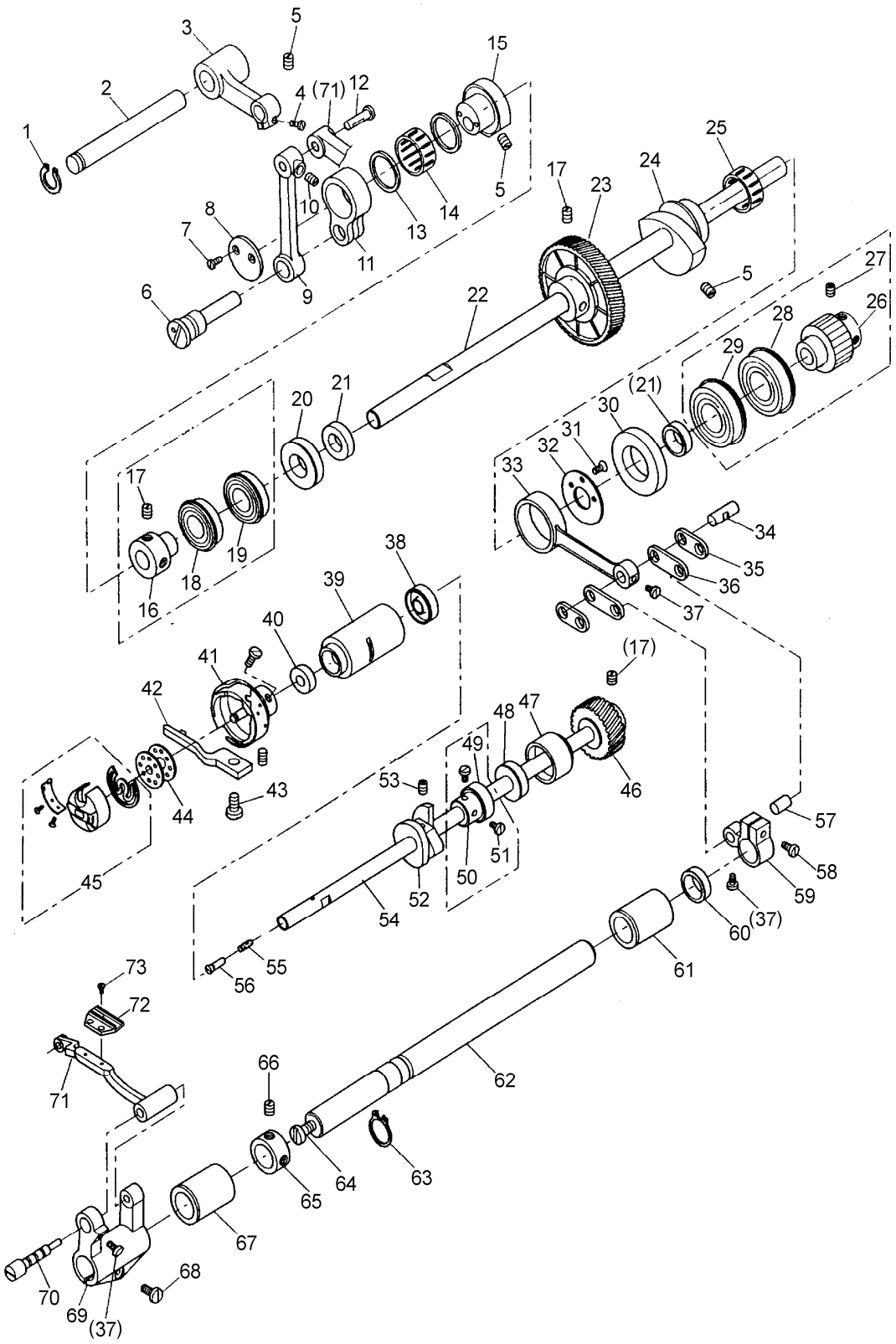
B. NEEDLE BAR AND THREAD TAKE-UP MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
B01	HM00C48001	Upper shaft	1	
B02	HM00C68001	Crank	1	
B03	HA100C2070	Screw	1	
B04	HA307C0662	Screw	2	
B05	HA100C2060	Screw	1	
B06	H3208H0661	Ball bearing	1	
B07	H6711C8001	Bushing	1	
B08	H431060080	Screw	2	
B09	H6713C8001	Bobbin winder driving wheel	1	
B10	H431060080	Screw	5	
B11	H6717C8001	Bushing	1	
B12	H3205J0662	Ball bearing	1	
B13	H6708C8001	Belt pulley (upper)	1	
B14	H6715C8001	Screw	1	
B15	H8805C8001	Belt	1	
B16	HA7311C806	Screw	1	
B17	HE70C68001	Crank rod	1	
B18	HG612C8001	Ball bearing	1	
B19	HE70C78001	Feed drive eccentric cam	1	
B20	HA110D0672	Screw	2	
B21	HD544C8001	Screw	3	
B22	HE71C08001	Feed regulator stud	1	
B23	HA7311CE06	Link stud	2	
B24	HM01C17101	Adjusting crank assy	1	
B25	HA111G0683	Screw	1	
B26	HE71C18001	Feed regulator stud	1	
B28	HM01C38001	Link	1	
B29	H007013050	Retaining ring E-type	1	
B30	HE71C68001	Link stud	1	
B31	HA706C1192	Link	2	
B32	HA8211C305	Link	2	
B33	HA304G0656	Screw	1	
B34	HA7311C806	Screw	1	
B35	HD546C8001	Top feed rock shaft crank	1	
B36	HE71C78001	Feed rock shaft crank pin	1	
B37	H6706I7101	Thread take-up lever assy.	1	
B38	H6710I8001	Thread take-up lever link	1	
B39	H6711I8001	Thread take-up crank	1	
B40	HM00H57101	Needle bar link assy.	1	
B41	HA104C0656	Screw	1	
B42	HA104C0658	Needle bar holder	1	
B43	H2204C0651	Screw	1	
B44	H24211D405	Oil wick	1	

B. NEEDLE BAR AND THREAD TAKE-UP MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
B45	H24211D305	Plug	1	
B46	HA100C2020	Screw	1	
B47	H6716I8001	Thread take-up support shaft	1	
B48	H6717I8001	Bearing	2	
B49	H6718I8001	Bearing support	2	
B50	H6719I8001	Thrust collar	1	
B51	HA100B2110	Screw	2	
B52	H6706H8001	Square block	1	
B53	HA300B2090	Rubber plug	1	
B54	H6711B8001	Needle bar bushing(upper)	1	
B55	H2504D0653	Screw	1	
B56	HM00H88001	Needle bar	1	
B57	H8813B8001	Needle bar bushing(lower)	1	
B58	HD507G8001	Thread guide	1	
B59		Needle	1	DB×1 #14
B60	HM00C88001	Cam	1	
B61	HG612C8001	Bearing	1	
B62	HM00C98001	Crank rod	1	
B63	HD511C8001	Pin	1	

C. FEEDING AND FEED LIFTING MECHANISM



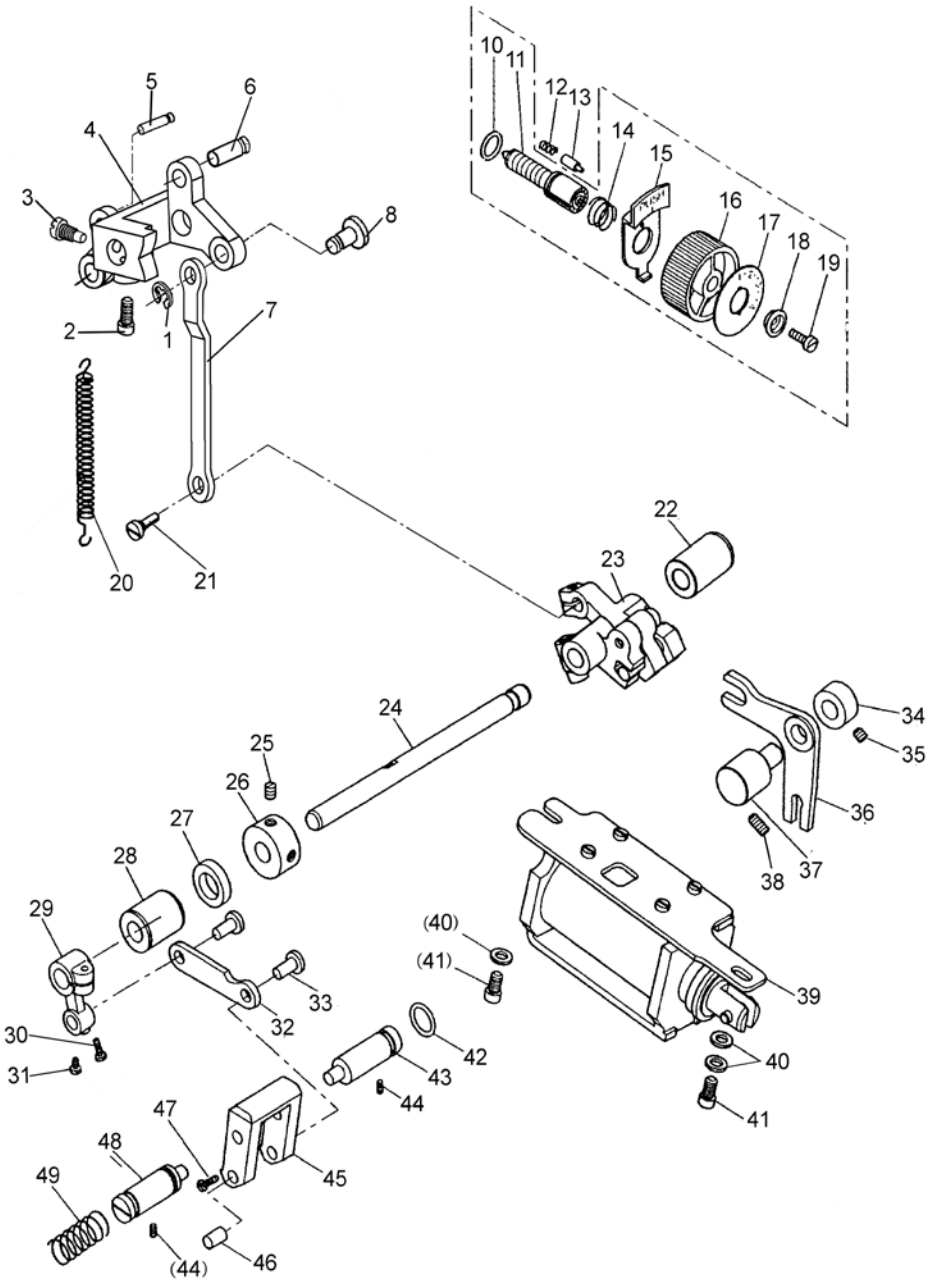
C. FEEDING AND FEED LIFTING MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
C01	H007009100	Retaining ring-C type	1	
C02	H9113D8001	Shaft	1	
C03	H9115D8001	Guide crank	1	
C04	HA300B2160	Screw	1	
C05	HA100C2020	Screw	5	
C06	H9116D8001	Eccentric shaft	1	
C07	HA106B0676	Screw	2	
C08	H9110D8001	Thrust collar	1	
C09	H9116E8001	Link	1	
C10	H431050050	Screw	1	
C11	H9109D8001	Feed lifting connecting rod	1	
C12	H6724D8001	Connecting stud	1	
C13	H9108D8001	Bearing support	2	
C14	H9107D8001	Needle bearing	1	
C15	H9105D8001	Feed lifting connecting cam	1	
C16	H8811D8001	Bushing	1	
C17	HA307C0662	Screw	6	
C18	H6711D8001	Ball bearing	1	
C19	H8813D8001	Ball bearing	1	
C20	H6714B8001	Bushing	1	
C21	H6745B8001	Oil seal	2	
C22	H8805D8001	Feed lifting rock shaft	1	
C23	H6708D7101	Gear(large)	1	
C24	H6705E8001	Lever feed eccentric cam	1	
C25	H30211C206	Needle bearing	1	
C26	HE70D58001	Belt pulley(lower)	1	
C27	H431060080	Screw	2	
C28	H3208H0661	Ball bearing	1	
C29	H8812D8001	Ball bearing	1	
C30	H6714B8003	Bushing	1	
C31	HA7311C306	Screw	3	
C32	H30211C406	Thrust collar	1	
C33	H6706E8001	Lever feed connecting rod	1	
C34	HA706C11B1	Pin	1	
C35	H6724E8001	Link	2	
C36	H6709E8001	Link	2	
C37	HA7311C806	Screw	3	
C38	H6709F8001	Oil seal	1	
C39	H6716B8002	Lower shaft bushing(left)	1	
C40	H6747B8001	Oil seal	1	
C41	HA707E0067	Rotary hook assy.	1	
C42	HA300E2050	Rotating hook positioner	1	
C43	HA100E2150	Screw	1	

C. FEEDING AND FEED LIFTING MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
C44	HA100E2180	Bobbin	1	
C45	HA708E0068	Bobbin case assy.	1	
C46	H6709D8001	Gear(small)	1	
C47	H8832B8001	Lower shaft bushing(right)	1	
C48	H6747B8001	Oil seal	1	
C49	H6707F8001	Ball bearing	1	
C50	H6708F8001	Bushing	1	
C51	HA300B2130	Screw	2	
C52	HA710E0691	Thread trimmer cam	1	
C53	HA710E0692	Screw	2	
C54	H8804F8001	Lower shaft	1	
C55	H6712F8001	Oil wick	1	
C56	H6726E8001	Screw	1	
C57	HA706C11B2	Pin	2	
C58	HA7311C606	Screw	1	
C59	H6707E8001	Feed rock shaft crank	1	
C60	H6748B8001	Oil seal	1	
C61	H8829B8001	Bushing	1	
C62	H8807E8001	Feed rock shaft	1	
C63	H007009150	Retaining ring-C type	1	
C64	HA300J2280	Screw	1	
C65	HA108G0661	Thrust collar	1	
C66	HA105D0662	Screw	2	
C67	H8828B8001	Bushing	1	
C68	HA104G0012	Screw	1	
C69	H6715E8001	Crank	1	
C70	H6725E8001	Eccentric shaft	1	
C71	H9115E8001	Feed bar	1	
C72	HD505J8001	Feed dog	1	
C73	HA104G0654	Screw	2	

D. STITCH REGULATOR MECHANISM



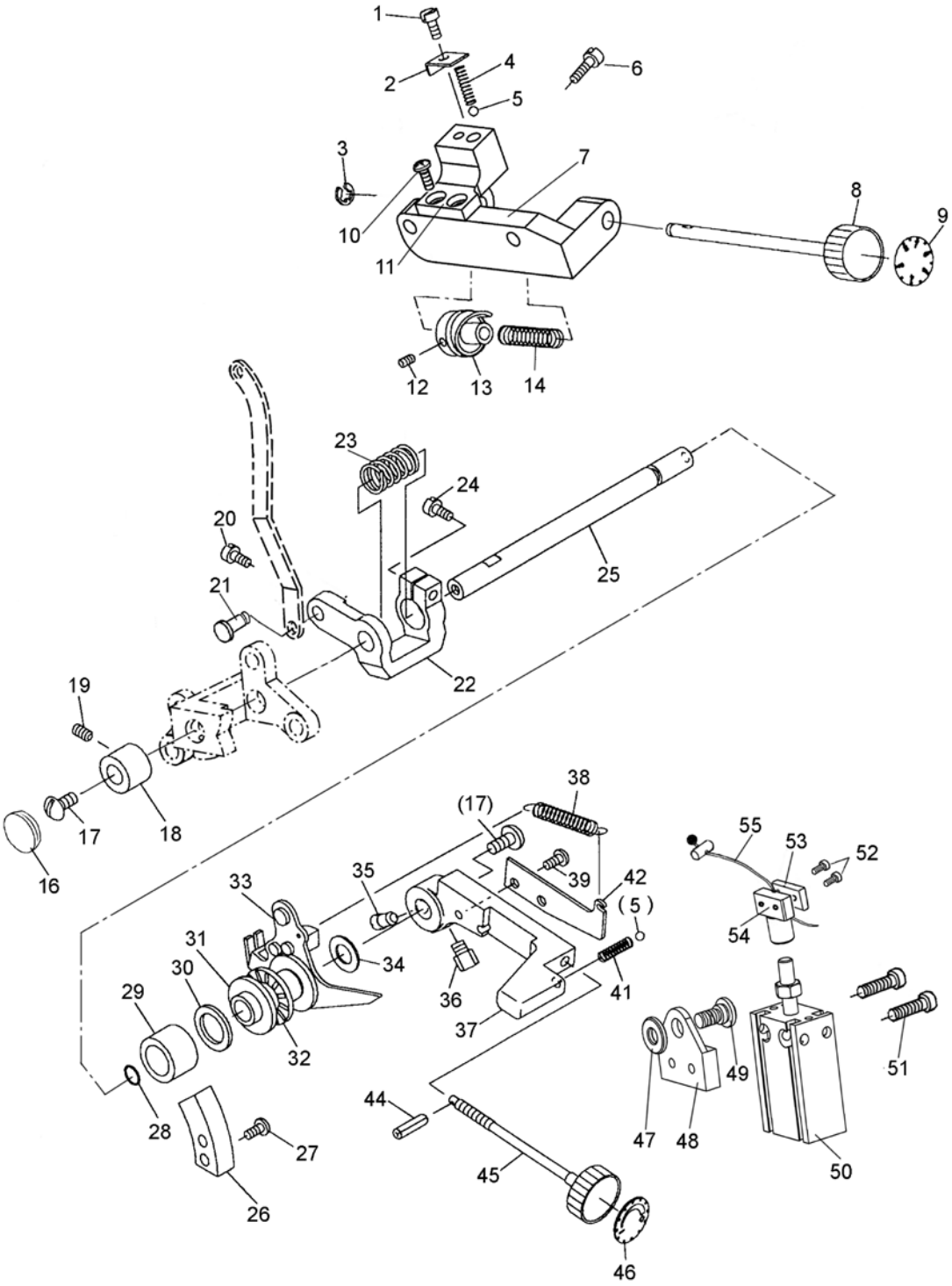
D. STITCH REGULATOR MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
D01	H007013050	Retaining ring E-type	1	
D02	HA104F0654	Screw	1	
D03	H3200F2020	Screw	1	
D04	HE70G88001	Feed adjusting cam	1	
D05	H6510H8001	Pin	1	
D06	HD509F8001	Pin	1	
D07	HE71G08001	Feed regulating link	1	
D08	HD543C8001	Feed regulator stud	1	
D10	HA109F0674	O-ring	1	
D11	HA720F0681	Screw bar	1	
D12	HA100F2090	Spring	1	
D13	HA700F2030	Pin	1	
D14	HA720F0687	Coil spring	1	
D15	HA720F0683	Releasing lever	1	
D16	HA7421F120	Dial for stitch length regulator	1	
D17	HA720F0684	Stitch length indicating plate	1	
D18	HA720F0685	Bushing	1	
D19	HA720F0686	Screw	1	
D20	HE71G68001	Spring	1	
D21	H6710E8001	Eccentric shaft	1	
D22	H8830B8001	Bushing	1	
D23	HE71G27101	Screw bar assy.	1	
D24	H8810G8001	Shaft	1	
D25	HA307C0662	Screw	2	
D26	HE71G58001	Collar	1	
D27	H6749B8001	Oil seal	1	
D28	H6718B8001	Bushing	1	
D29	H9110E8001	Crank	1	
D30	HA7651B319	Screw	1	
D31	HA7311C806	Screw	1	
D32	H6711E8001	Link	1	
D33	H6710E8001	Connecting stud	2	
D34	H8841B8001	Thrust collar	1	
D35	H431050050	Screw	2	
D36	H8838B8001	Bell-crank	1	
D37	H8839B8001	Bell-crank shaft	1	
D38	HA100C2020	Screw	1	
D39	H8835B7101	Solenoid	1	
D40	HA700P0010	Washer	3	
D41	HA104F0654	Screw	2	
D42	H6721E8001	O-ring	1	
D43	H8809E8001	Feed regulator shaft	1	
D44	H3230K0751	Screw	2	

D. STITCH REGULATOR MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
D45	H6708E8001	Stitch length adjusting crank	1	
D46	HA7311CE06	Link stud	1	
D47	HA7311CD06	Screw	2	
D48	H6713E8001	Feed regulator shaft	1	
D49	H6723E8001	Coil spring	1	

E. TOP FEED ROCK SHAFT MECHANISM



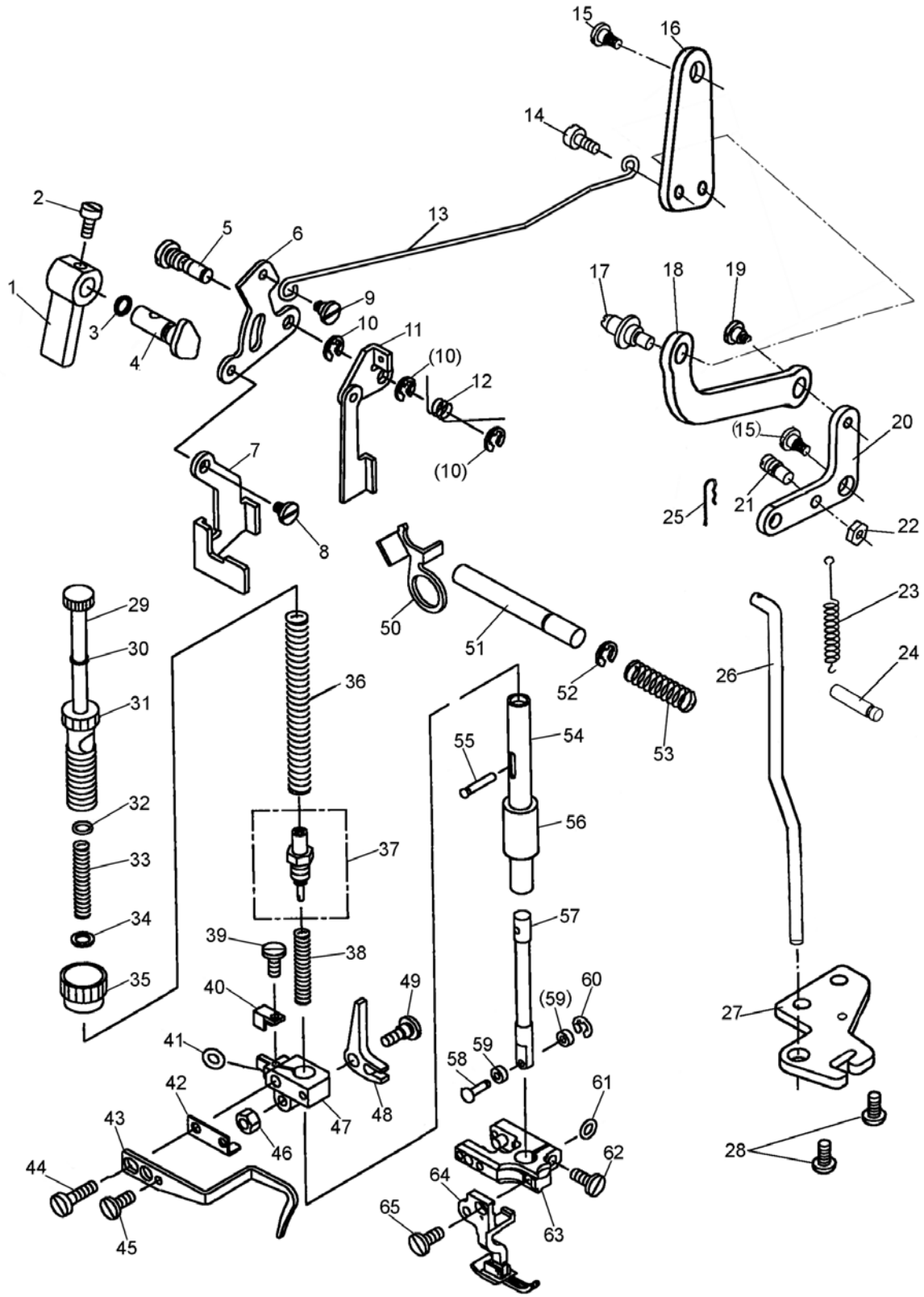
E. TOP FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
E01	HA700F2100	Screw	1	
E02	HD556F8001	Spring holder	1	
E03	H007013040	Retaining ring E-type	1	
E04	HD555F8001	Coil spring	1	
E05	HE00001050	Ball	2	
E06	HF914B8001	Screw	2	
E07	HM01G18001	Ruffling stopper base	1	
E08	HD549F7101	Ruffling stopper dial	1	
E09	HD558F8001	Ruffling indicating plate	1	
E10	HA300C2030	Screw	2	
E11	HM01G28001	spring seat	1	
E12	HA100B2110	Screw	2	
E13	HD554F8001	Ruffling stopper cam	1	
E14	HD553F8001	Coil spring	1	
E16	HA700B2120	Rubber plug	1	φ20×6
E17	HA113F0683	Screw	2	
E18	HM00B88001	Feed reverse shaft bushing	1	
E19	H3000D2030	Screw	1	
E20	H3207F0672	Screw	1	
E21	HD514F8001	Pin	1	
E22	HM00G68001	Top feed arm	1	
E23	HD526F8001	Coil spring	1	
E24	HA304G0656	Screw	1	
E25	HM00G78001	Feed reverse shaft	1	
E26	HD547F8001	Top feeding scale plate	1	
E27	HA300B2130	Screw	2	
E28	HA113F3022	O-ring	1	
E29	HD515B8001	Needle bearing	1	
E30	H6748B8001	Oil seal	1	
E31	HD527F8001	Thrust washer	1	
E32	HD409H8001	Thrust bearing	1	
E33	HD530F8001	Top feed lever	1	
E34	HD535F8001	Washer	1	
E35	H3200F2020	Screw	1	
E36	HD515F8001	Bolt	1	
E37	HD537F8001	Stitch adjusting lever	1	
E38	HD546F8001	Coil spring	1	
E39	HA100C2190	Screw	2	
E41	HD538F8001	Spring	1	
E42	HD545F8001	Spring holder	1	
E44	H609015060	Spring pin	1	
E45	HD540F7101	Top feeding dial	1	
E46	HD544F8001	Top indicating plate	1	

E. TOP FEED ROCK SHAFT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
E47	H7212I8001	Washer	1	
E48	HM02G18001	Bracket	1	
E49	HB2266J081	Screw	1	
E50	HM01G68001	Cylinder	1	
E51	H415040200	Screw	2	
E52	H415030080	Screw	2	
E53	HM02G08001	Plate	1	
E54	HM01G98001	Collet	1	
E55	HM01G77101	Wire	1	

F. PRESSER FOOT MECHANISM



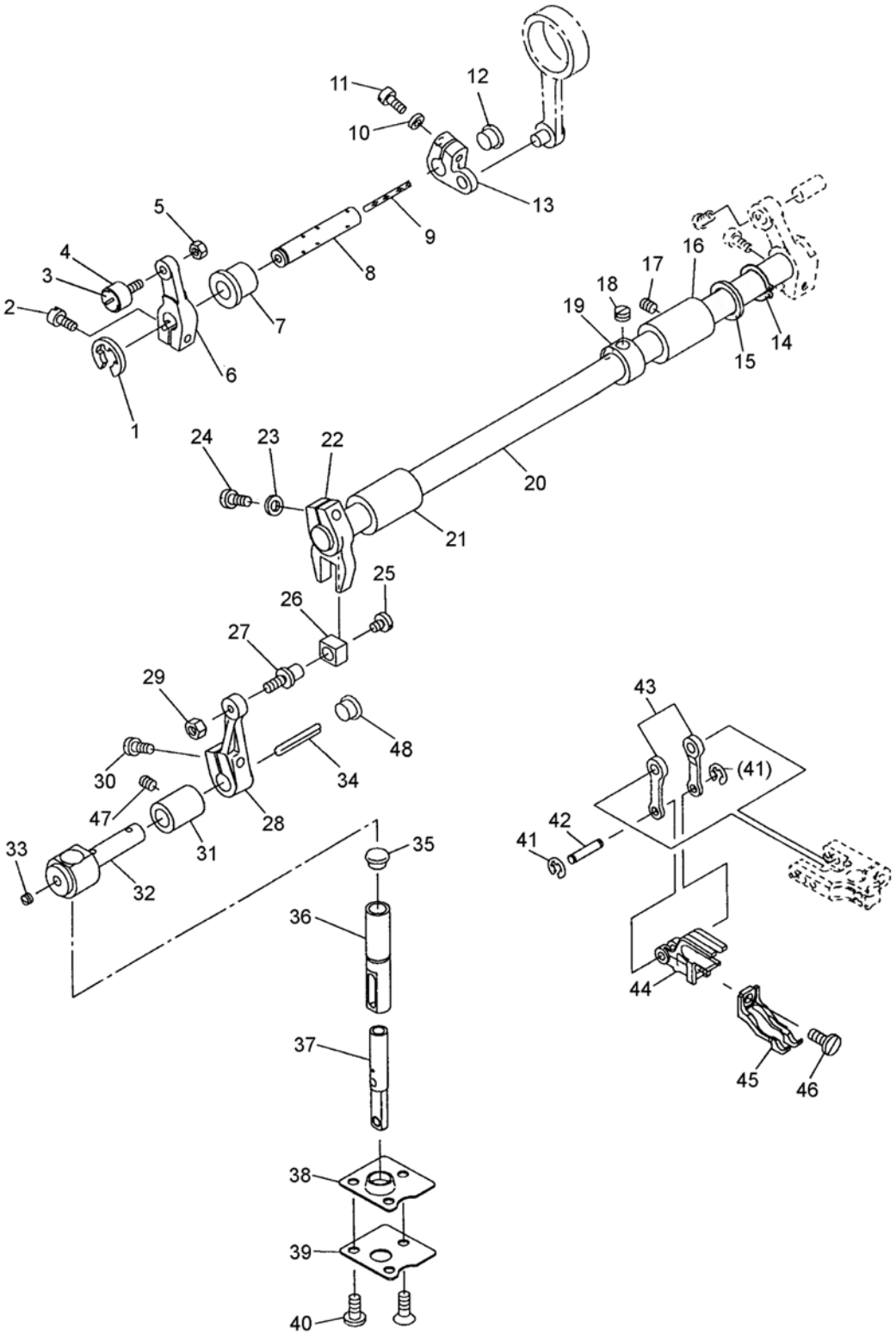
F. PRESSER FOOT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
F01	H1204F0651	Presser bar lifter lever	1	
F02	HA300B2170	Screw	1	
F03	HA300H2080	O-ring	1	
F04	H6728J8001	Presser bar lifter cam	1	
F05	HE72J78001	Stud screw	1	
F06	HD510H8001	Presser up lever (Left)	1	
F07	HM01J88001	Pull-up plate	1	
F08	HD511H8002	Shoulder screw	1	
F09	HD511H8001	Shoulder screw	1	
F10	H007013050	Retaining ring E-type	3	
F11	HD520H7101	Tension release link assy.	1	
F12	HD524H8001	Spring	1	
F13	HE70J78001	Knee lifter rod	1	
F14	HA107H0662	Stud screw	1	
F15	HA100H2050	Screw	2	
F16	HE72J08001	Presser foot lever	1	
F17	HE72J18001	Pin	1	
F18	HE72J28001	short rod	1	
F19	HM026E8001	Screw	1	
F20	HE71J58001	knee lifter lever(right)	1	
F21	HE71J68001	Screw	1	
F22	HA706N0663	Nut	1	
F23	HE71J98001	Spring for knee lifter lever	1	
F24	H6510H8001	Pin	1	
F25	H4739E8001	Snap pin	1	
F26	HE71J78001	Knee lifter connecting rod	1	
F27	HE71J88001	Knee lifter connecting rod guide	1	
F28	HA300C2030	Screw	2	
F29	HD506Q8001	Presser adjusting screw guide	1	
F30	HD507Q8001	Snap ring	1	
F31	HD505Q8001	Presser adjusting screw	1	
F32	HD508Q8001	Washer	1	
F33	HD509Q8001	Top feed adjusting knob spring	1	
F34	HD510Q8001	Washer	1	
F35	HA117H0692	Thumb nut	1	
F36	HD511Q8001	Presser spring	1	
F37	HD518Q7101	Cap nut assy.	1	
F38	HD527Q8001	Top feed spring	1	
F39	HA104G0654	Screw	1	
F40	HD515Q8001	bracket guide	1	
F41	HD523Q8001	Washer	1	
F42	HD522Q8001	Bracket plate	1	
F43	HM00J78001	Upper thread guide	1	

F. PRESSER FOOT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
F44	HA7311C606	Screw	1	
F45	H2000I2050	Screw	1	
F46	HA104G0658	Nut	1	
F47	HD514Q8001	Presser bar guide bracket	1	
F48	HD524Q8001	Bellcrank	1	
F49	HD525Q8001	Stud screw	1	
F50	HD521C8001	Tension release plate	1	
F51	H6727J8001	Tension release pin	1	
F52	H007013030	Retaining ring E-type	1	
F53	H6732J8001	Tension release pin spring	1	
F54	HM00J68001	Presser bar	1	
F55	HD528Q8001	Top feed lifting pin	1	
F56	HD511B8001	Presser bar bushing	1	
F57	HM00J98001	Top feed lifting bar	1	
F58	HD531Q8001	Roller pin	1	
F59	HD532Q8001	Roller	2	
F60	H007013025	Retaining ring E-type	1	
F61	HD523Q8002	Washer	1	
F62	H4100B2260	Screw	1	
F63	HM01J38001	Presser bar base	1	
F64	HD550Q7101	Presser foot	1	
F65	HA104G0012	Screw	1	

G. TOP FEED MECHANISM

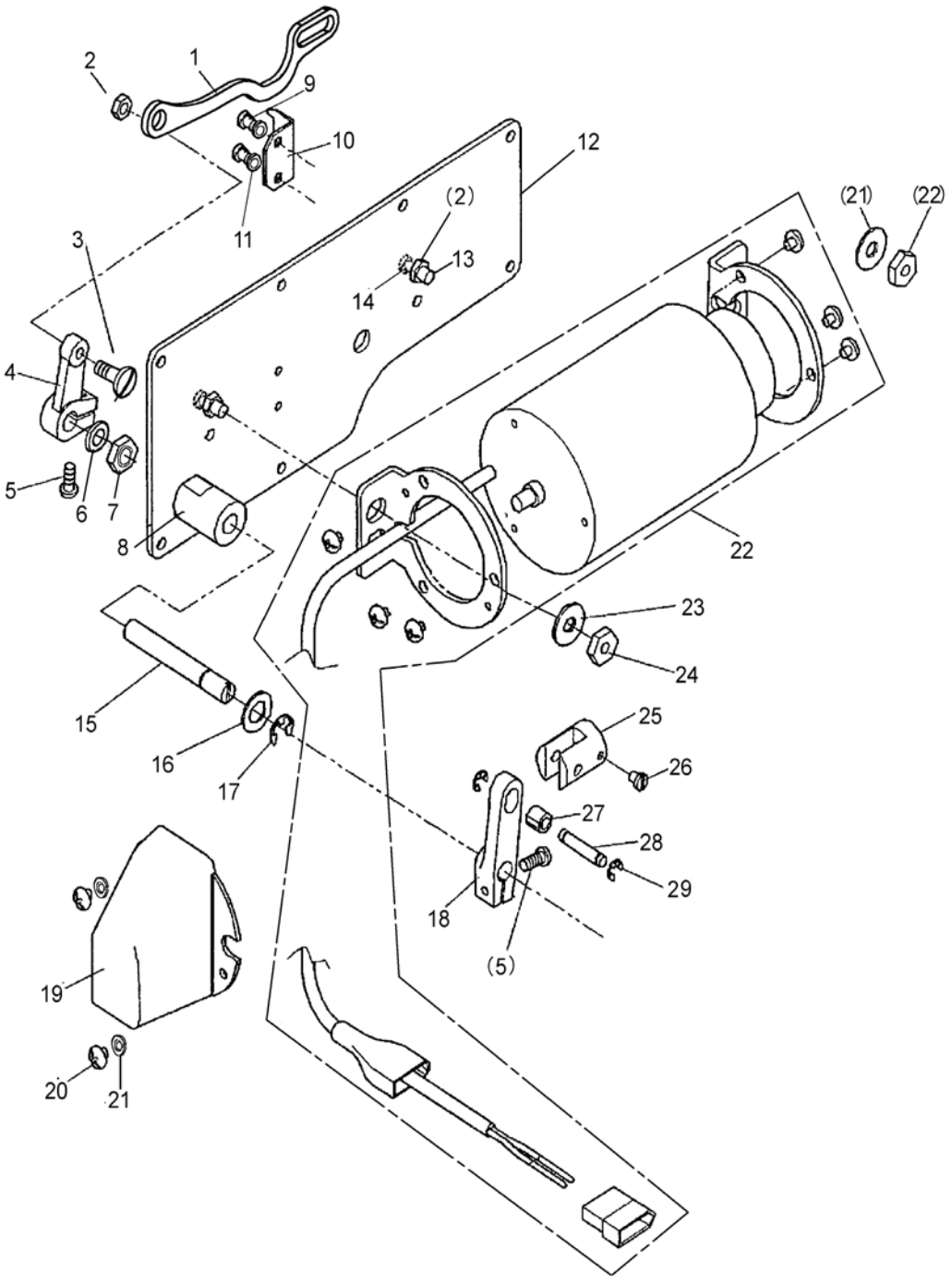


G. TOP FEED MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
G01	H007013080	Retaining ring E-type	1	
G02	HA104G0012	Screw	1	
G03	HD524C8001	Roller stud	1	
G04	HD519C8001	Roller	1	
G05	H003002040	Nut	1	
G06	HM00I88001	Top feed vertical arm (Front)	1	
G07	HD521B8001	Top feed vertical shaft bushing	1	
G08	HM00I58001	Top feed vertical shaft	1	
G09	HA304I0653	Oil wick	1	
G10	HD520C8001	Washer	1	
G11	H4100B2260	Screw	1	
G12	H7319D8001	Plug	1	
G13	HD518C8001	Top feed vertical arm (Rear)	1	
G14	H007009120	Retaining ring C-type	1	
G15	H3010D0674	Washer	1	
G16	HE71B08001	Upper horizontal bushing (Right)	1	
G17	H3000D2030	Set screw	1	
G18	HA105D0662	Set screw	2	
G19	H3011D0681	Thrust collar	1	
G20	HM00I68001	Upper horizontal rocker shaft	1	
G21	HE70B98001	Upper horziontal bushing (Left)	1	
G22	HD509I8001	Upper horizontal forked arm	1	
G23	HD520C8001	Washer	1	
G24	HA104G0012	Screw	1	
G25	HD514I8001	Screw	1	
G26	HD513I8001	Square block	1	
G27	HD512I8001	Square block stud	1	
G28	HD511I8001	Upper rocker crank	1	
G29	HD515I8001	Nut	1	
G30	HA304G0656	Screw	1	
G31	HD520B8001	Upper rocker shaft bushing	1	
G32	HD517I8001	Upper rocker shaft	1	
G33	HA305E0662	Set screw	1	
G34	HD518I8001	Oil wick	1	
G35	HA300B2090	Rubber plug	1	
G36	HM01J18001	Top feed bar bushing	1	
G37	HD536Q7101	Top feed bar	1	
G38	HD539Q8001	Gasket	1	
G39	HD519I8001	Gasket plate	1	
G40	HD520I8001	Screw	3	
G41	H007013035	Retaining ring E-type	2	
G42	HD546Q8001	Pin	1	
G43	HD544Q8001	Link assy.	2	

G. TOP FEED MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
G44	HD548Q8001	Top feed dog base	1	
G45	HD549Q8001	Top feed dog	1	
G46	HA700B2060	Screw	1	
G47	H3000D2030	Roller stud	1	
G48	HD513C8001	Rubber plug	1	φ10.5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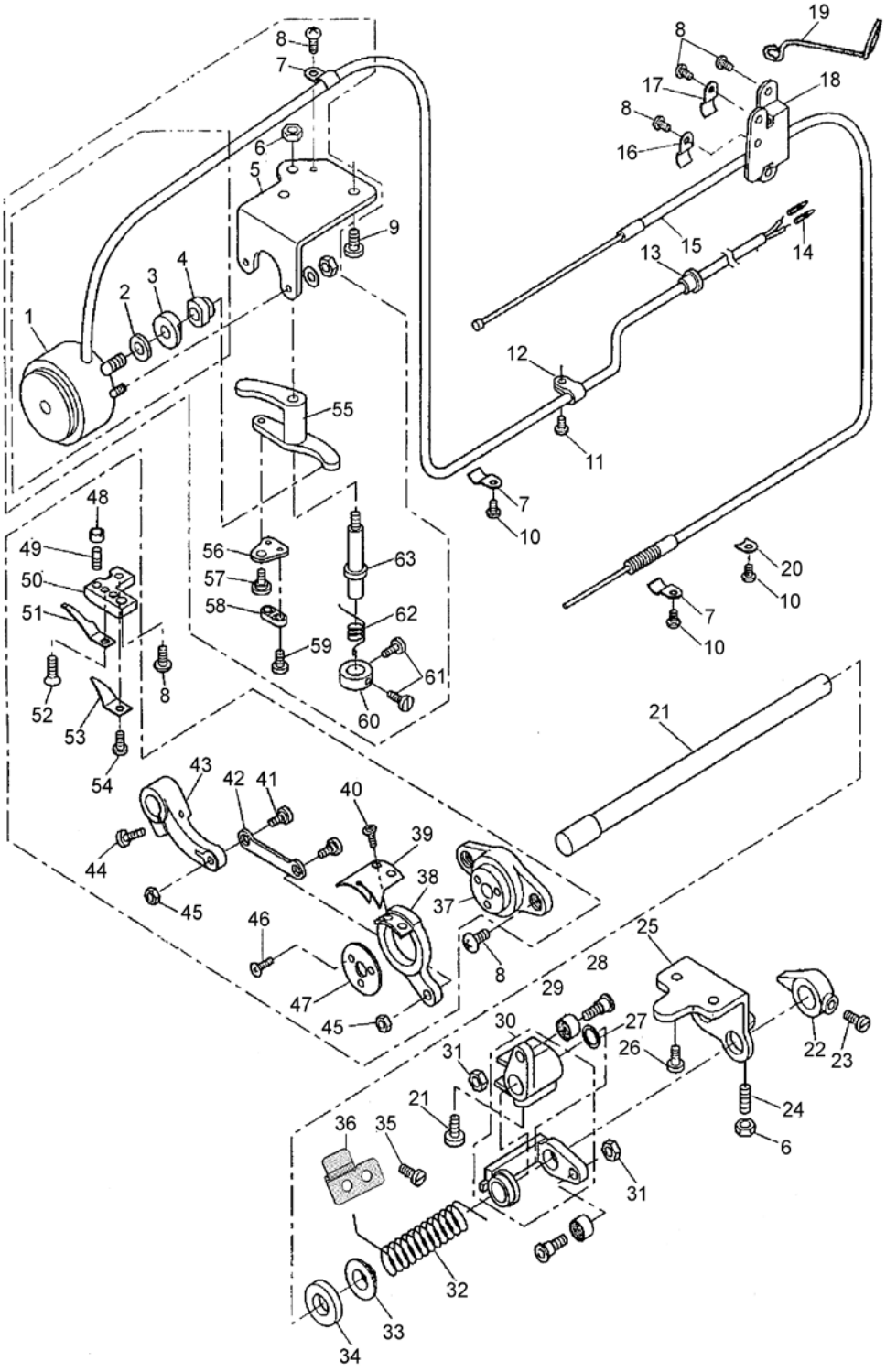
H. PRESSER FOOT MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
H01	HM01J58001	Link	1	
H02	H5344B8001	Nut	3	
H03	HB2266J081	Hinged screw	1	
H04	HB2264J081	Arm	1	
H05	HA104G0012	Screw	2	
H06	HE72J68001	Washer	1	
H07	HB2268J081	Nut	1	
H08	HB2269J081	Bushing	1	
H09	H5332B8001	Screw	2	
H10	HE72J88001	Guide plate	1	
H11	HB2267J081	Washer	2	
H12	HE72J48001	Slide cover	1	
H13	H6736K8001	Screw	2	
H14	HB2275J081	Washer	2	
H15	HB2265J081	Shaft	1	
H16	H7353G8001	Washer	1	
H17	H007013060	E-type stop ring	1	
H18	HB2253J081	Arm	1	
H19	HB2272J081	Cover	1	
H20	H409040060	Screw	2	
H21	H005008040	Washer	2	
H22	HB2256J072	Solenoid assy.	1	
H23	HB2274J081	Washer	2	
H24	HB2273J081	Nut	2	
H25	HB2255J081	Collar	1	
H26	HA300C2030	Screw	1	
H27	HB2270J081	Roller	1	
H28	HB2254J081	Pin	1	
H29	H007013035	E-type stop ring	2	

I. THREAD TRIMMER MECHANISM

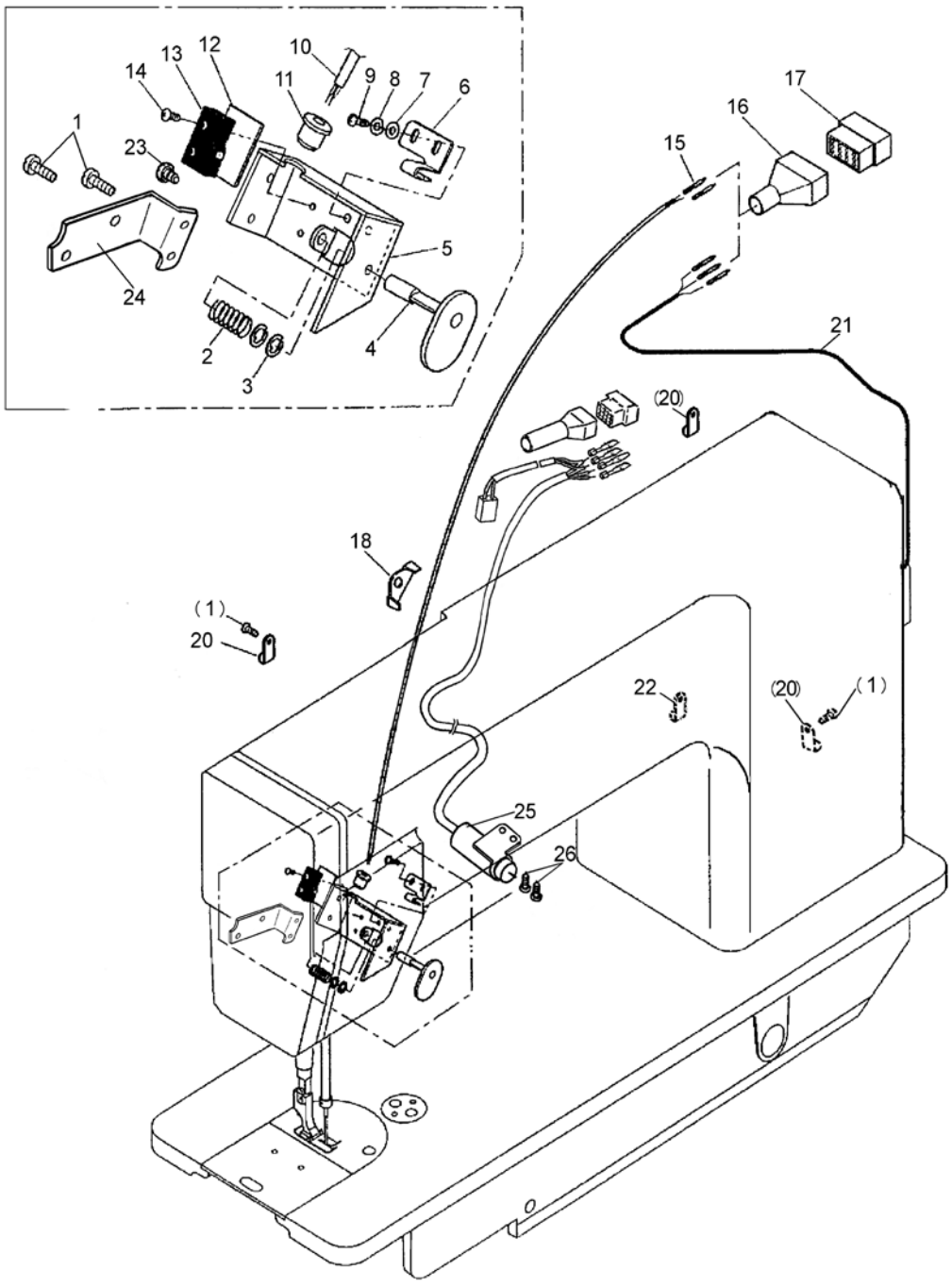


I. THREAD TRIMMER MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
I01	H8811K8001	Solenoid	1	
I02	H6718K8001	Washer	1	
I03	H6719K8001	Nut	1	
I04	H6720K8001	Nut	1	
I05	H6715K8001	Solenoid bracket	1	
I06	HA710N0683	Nut	2	
I07	H6732K8001	Holder	1	
I08	HA300C2030	Screw	1	
I09	HA700N0080	Screw	2	
I10	H200000360	Screw	3	
I11	HA300B2170	Screw	1	
I12	H6727N8001	Cord holder	1	
I13	HA704O0657	Rubber plug	1	
I14	HA7641B319	Terminal pin	2	
I15	H8814K8001	Flexible wire	1	
I16	H6729K8001	Holder	1	
I17	H32311D606	Holder	1	
I18	H6731K8001	Wire holder bracket	1	
I19	HB2276J081	Tubing clamp	1	
I20	H6733K8001	Washer	1	
I21	H8805K8001	Shaft	1	
I22	H6713K8001	Stopper lever	1	
I23	HA113F0684	Screw	1	
I24	H6735K8001	Screw	1	
I25	H6711K8001	Bracket plate	1	
I26	H6736K8001	Screw	2	
I27	HA706N0664	Washer	1	
I28	HA7221N206	Roller shaft	2	
I29	HA7221N106	roller	2	
I30	HA706N1011	Cam follower crank assy.	1	
I31	HA706N0663	Nut	2	
I32	H6737K8001	Spring	1	
I33	HA700N0050	Bushing	1	
I34	H8807K8001	Spacer	1	
I35	HA300B2160	Screw	2	
I36	H8842B8001	Spring bracke	1	
I37	H6707K8001	Knife holding bracket saddle	1	
I38	H6708K8001	Knife base(left)	1	
I39	HA7111N804	Movable Knife(left)	1	
I40	HA7111N704	Screw	2	
I41	HA7111N204	Screw	2	
I42	HA7111N404	Link	1	
I43	H9106K8001	Knife driving crank	1	

I. THREAD TRIMMER MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
I44	HA716F0662	Screw	1	
I45	HA7111N304	Nut	2	
I46	HA704N1114	Screw	3	
I47	H6738K8001	Thrust collar	1	
I48	HA7121N704	Nut	1	
I49	HA7121N604	Screw	1	
I50	HA7121N104	Bracket for fixed blade	1	
I51	HA7121N204	Fixed blade	1	
I52	HA7121N304	Screw	1	
I53	HA7121N404	Thread finger	1	
I54	HA7311CH06	Screw	1	
I55	H6721K8001	Thread trimmer driving lever	1	
I56	HA712N6910	Flexible wire holder	1	
I57	HA712N0699	Screw	1	
I58	HA712N6911	Flexible wire presser	1	
I59	HA712N6912	Screw	2	
I60	HA712N0696	Thrust collar	1	
I61	HA7311CC06	Screw	2	
I62	HA712N0697	Spring	1	
I63	H6722K8001	Stud bolt	1	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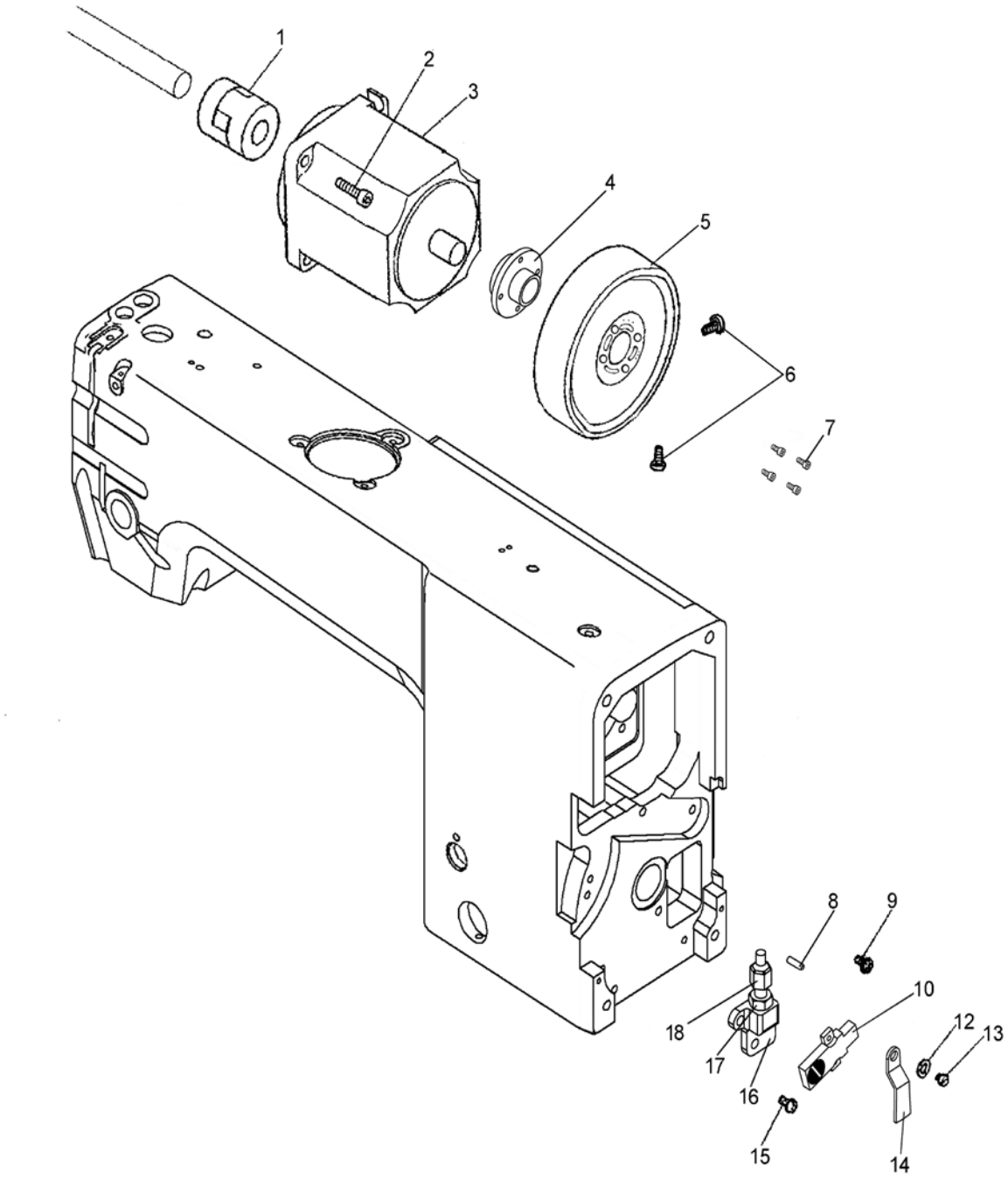
J.TOUCH BACK MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
J01	HA300B2170	Screw	4	
J02	HA704O0653	Coil spring	1	
J03	H007013030	E-type stop ring	2	
J04	HA704O0021	Push button	1	
J05	HE70L68001	Bracket for touch switch.	1	
J06	HA704O0654	Plate spring	1	
J07	HA704O6512	Washer	2	
J08	HA704O6511	Washer	2	
J09	HA704O0659	Screw	2	
J10	H8805L7101	Cord assy.	1	
J11	HA704O0657	Rubber plug	1	
J12	HA704O0658	Insulator seat	1	
J13	HA704O0655	Screw	1	
J14	HA704O6510	Screw	2	
J15	HA7641B319	Terminal pin	2	
J16	HG50N68001	Connector cap	1	
J17	HA700Q0010	Nylon connector 12-pole	1	
J18	H6726N8001	Cord holder	1	
J20	H6648I8001	Cord holder	3	
J21	H8804N7101	Cord assy.	1	
J22	HD44JM8001	Cord holder	1	
J23	HA7221P508	Screw	2	
J24	HE70L58001	bracket	1	
J25	HM02G37101	Switch Components	1	
J26	H415040060	Screw	2	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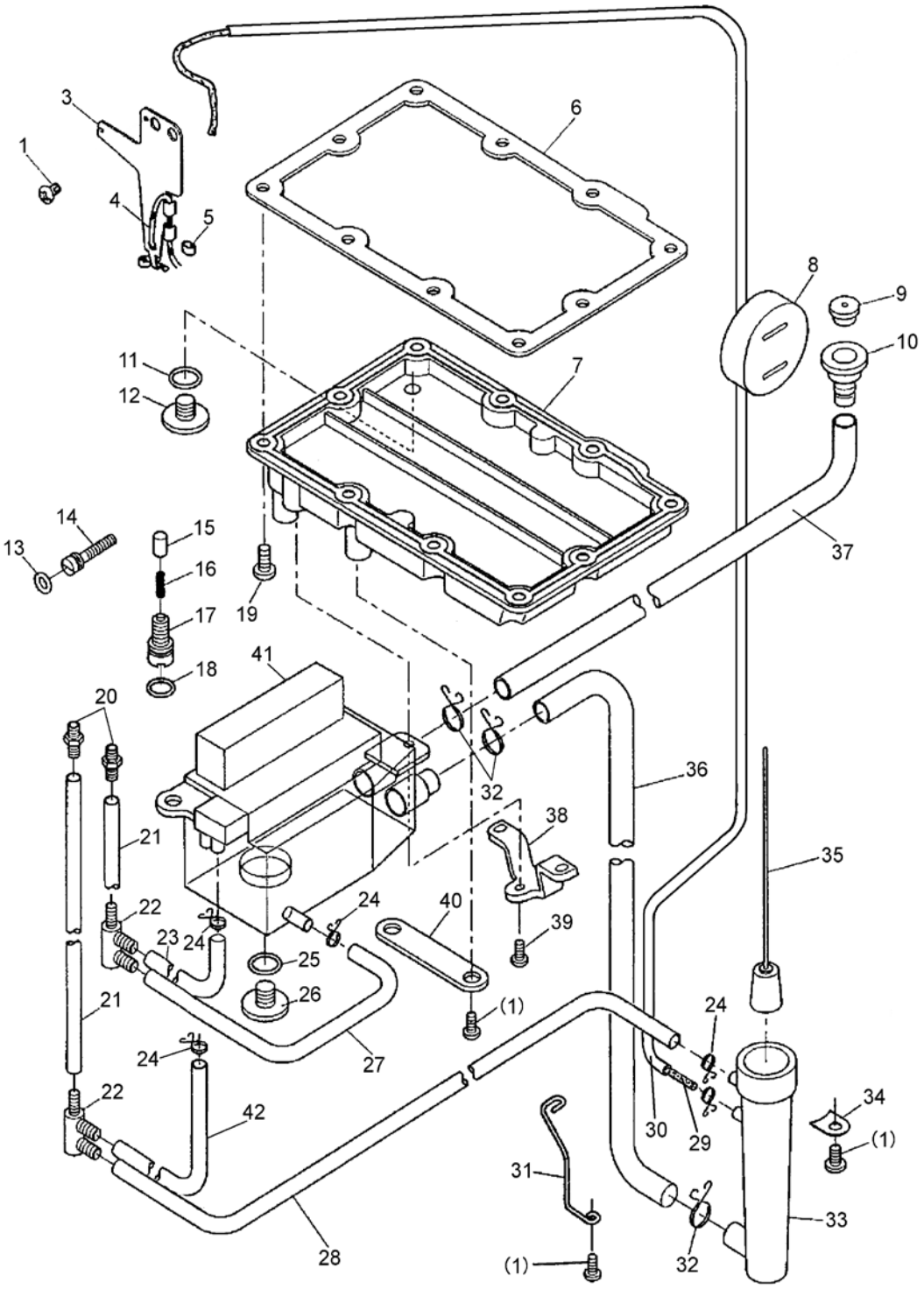
K. MOTOR MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
K01	HE70057101	Coupling assy.	1	
K02	H415060200	Screw	4	
K03	HE70048001	Motor	1	
K04	HM00N78001	Connect Block	1	
K05	HM00N58001	Pulley	1	
K06	H431060060	Screw	2	
K07	H415040100	Screw	4	
K08	H609030080	Spring pin	1	
K09	HZ11030080	Screw	2	
K10	HG51B98001	Sensor	1	
K12	HD510Q8001	Washer	1	
K13	HA107H0662	Screw	1	
K14	HG51B88001	Switch plate	1	
K15	HA300B2170	Screw	2	
K16	HM01B28001	Plate for guide	1	
K17	H2013N0067	Nut	1	
K18	HM01G48001	Screw	1	

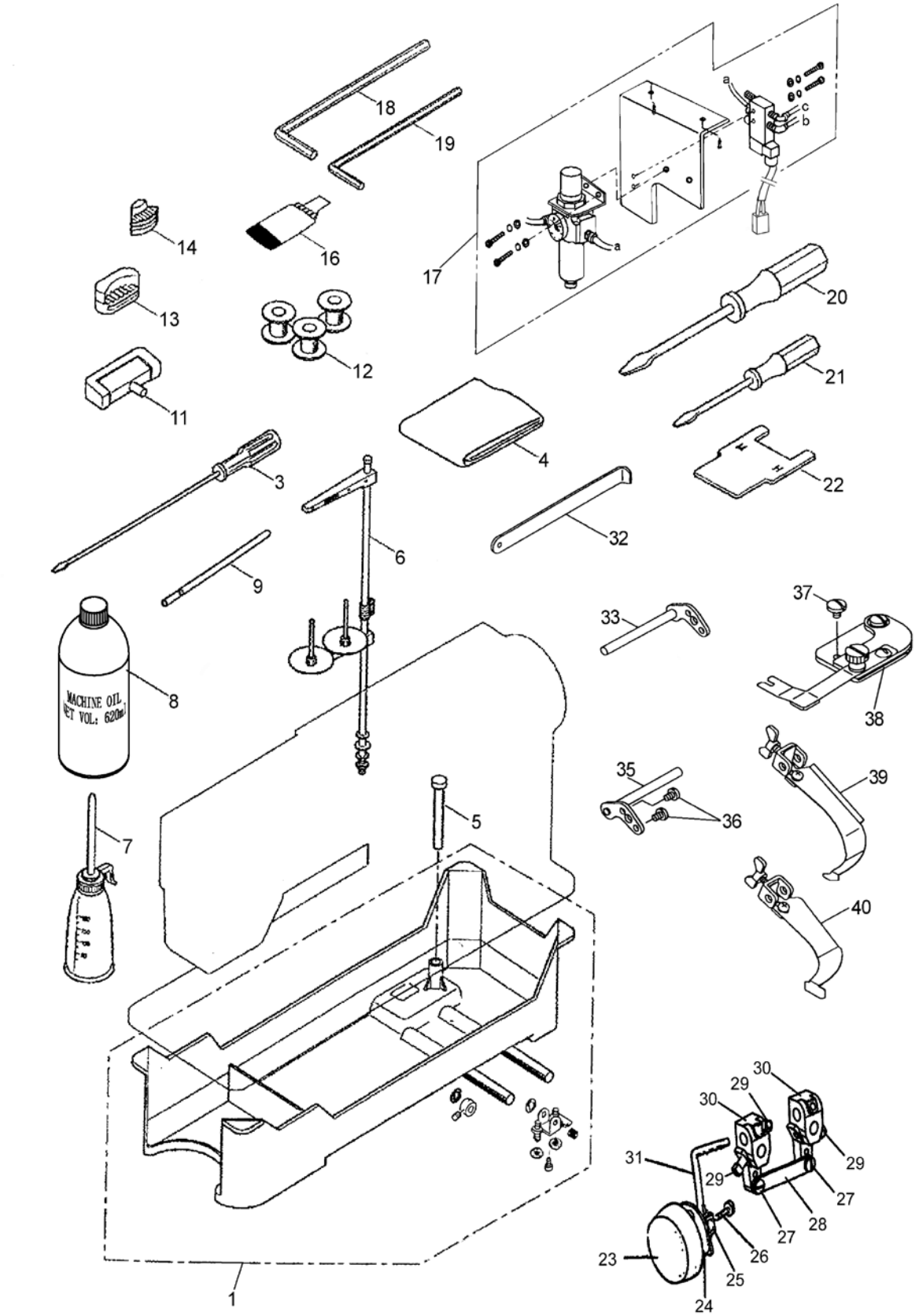
L. OIL LUBRICATION MECHANISM



L. OIL LUBRICATION MECHANISM

Fig. No.	Part No.	Description	Pcs.	Remarks
L01	HA300C2030	Screw	7	
L03	H6711P8001	Oil wick holder	1	
L04	H6729P8002	Oil wick	1	
L05	H3200G2030	Holder	1	
L06	HB2269B081	Gasket for bottom cover	1	
L07	H6740B8001	Bottom cover	1	
L08	H6722P8001	Oil sight window	1	
L09	H6712P8001	Oil cap	1	
L10	H6709P8001	Oil inlet	1	
L11	H6757B8001	O-ring	1	
L12	H6707P8001	Screw	1	
L13	H6725P8001	O-ring	1	
L14	HG50P78001	Screw	1	
L15	H6734P8001	Plunger	1	
L16	H6726P8001	Spring	1	
L17	H6704P8001	Screw	1	
L18	HA705C0662	O-ring	1	
L19	HA100I2090	Screw	10	
L20	H6708P8001	Oil pipe connector	2	
L21	H8807P8001	Oil pipe	2	
L22	H6715P8001	Oil pipe connector	2	
L23	H8807P8008	Oil pipe	1	
L24	H6714P8001	Pipe holder	3	
L25	H6757B8001	O-ring	1	
L26	H6707P8001	Screw	1	
L27	H8807P8006	Oil pipe	1	
L28	H8807P8004	Oil pipe	1	
L29	H8809P8001	Oil wick	1	
L30	H8807P8005	Oil pipe	1	
L31	HB2276J081	Tubing clamp	1	
L32	H6714P8002	Pipe holder	1	
L33	H6718P8001	Floater case	1	
L34	H6733K8001	Washer	2	
L35	H6719P7101	Floater assy.	1	
L36	H8808P8002	Oil pipe	1	
L37	H8808P8001	Oil pipe	1	
L38	H8805P8001	Cover	1	
L39	HA300B2170	Screw	2	
L40	H8843B8001	Cover	1	
L41	H6713P8001	Oil tank	1	
L42	H8807P8009	Oil pipe	1	

M. ACCESSORIES



M. ACCESSORIES

Fig. No.	Part No.	Description	Pcs.	Remarks
M01	HG51Q97101	Oil reservoir complete	1	
M03	HA300J2070	Screw driver(large)	1	
M04	HA100J2180	Cover	1	
M05	H6705Q8001	Knee lifter rod	1	
M06	HA200J2030	Thread stand assy.	1	
M07	H6720Q8001	Oiler	1	
M08	HA120J8001	Oil can	1	
M09	H8826Q8001	Oil gauge	1	
M11	HA307J0067	Table hinge with rubber cushion	2	
M12	HA100E2180	Bobbin	3	
M13	HA300J2050	Vibration preventing rubber	2	
M14	HA300J2060	Vibration preventing rubber	2	
M16		Needle set	4	DB×1 #14
M17	GJD-1-1	Filter valve and solenoid valve components	1	
M18	HB01001020	Hexagon socket screw key	1	
M19	HB01001030	Hexagon socket screw key	1	
M20	HA300J2200	Screw driver(middle)	1	
M21	HA300J2210	Screw driver(small)	1	
M22	H8822Q8001	Up position gauge	1	
M23	HA106J0668	Knee lifter plate	1	
M24	HA106J0665	Knee lifter cover	1	
M25	HA106J0666	Knee lifter plate stopper	1	
M26	HA106J0667	Bolt	1	
M27	H6017L8001	Screw	2	
M28	HG52Q18001	Connecting rod	1	
M29	HA300J2180	Screw	3	
M30	H6006L8001	Knee lifter coupling joint	2	
M31	HA106J0662	Knee lifter shaft	1	
M32	HD562R8001	Driver plate	1	
M33	HD513R7101	Edge guide holder	1	
M35	HD516R7101	Edge guide holder	1	
M36	HA106B0676	Screw	2	
M37	H32481BC21	Screw	2	
M38	HD544R7101	Separator assy.	1	
M39	HD535R7101	Edge guide assy.	1	
M40	HD542R7101	Edge guide assy.	1	

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