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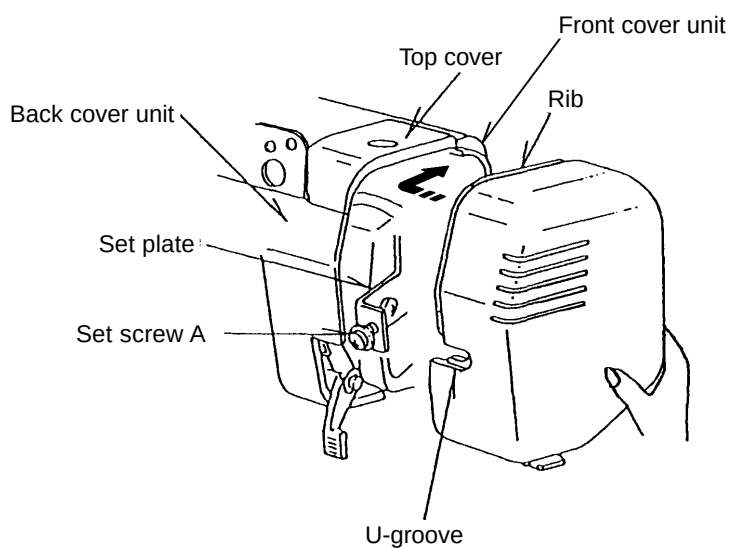
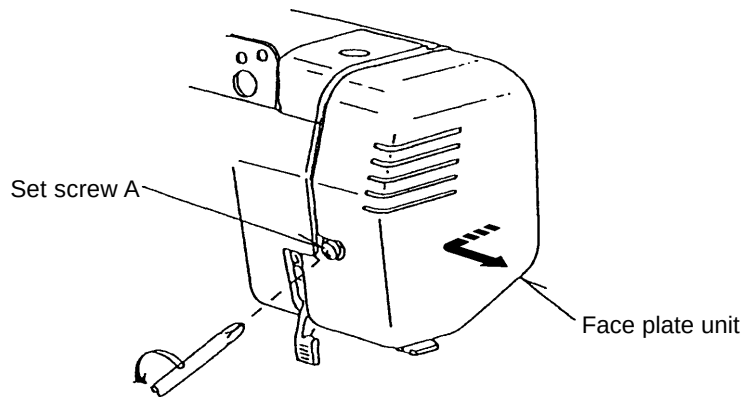
TO CHANGE THE FACE PLATE UNIT

To remove:

1. Loosen the set screw A and remove the face plate unit.

To attach:

2. Fit the U-groove of the face plate between the set screw A and set plate, put the rib of face plate into the front cover unit, top cover and back cover unit and tighten the set screw.



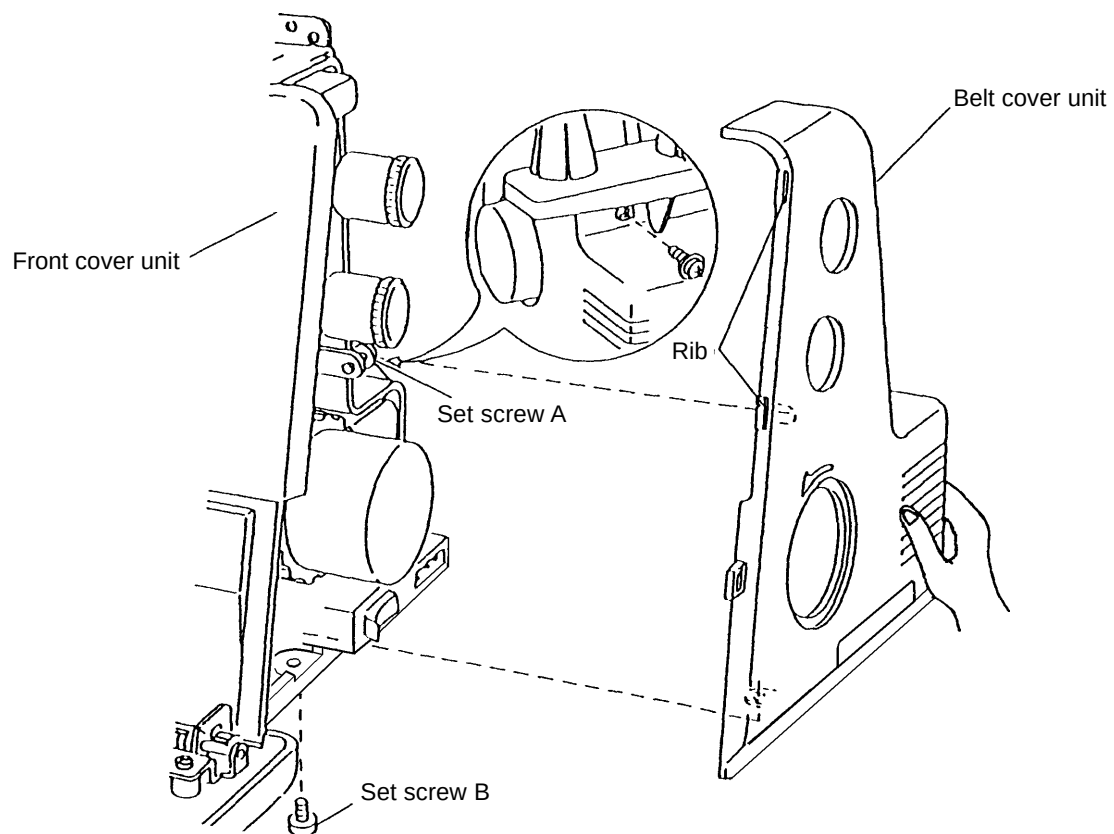
TO CHANGE THE BELT COVER UNIT

To remove:

1. Loosen set screw A and remove the set screw B.
2. Remove the belt cover unit.

To attach:

3. Put the ribs of belt cover into front cover unit and tighten set screws A and B.



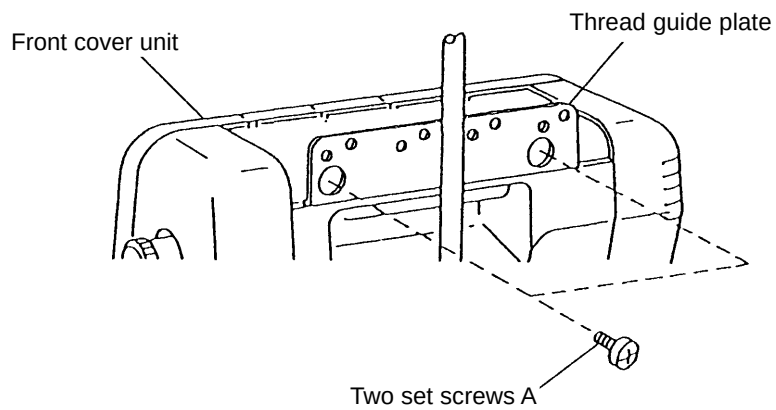
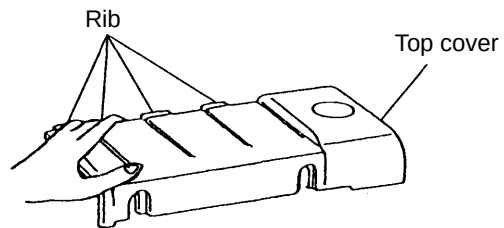
TO CHANGE THE TOP COVER

To remove:

1. Loosen two set screws A through the hole of thread guide plate, and remove the top cover.

To attach:

2. Put the ribs in the front cover.
3. Tighten two set screws A.



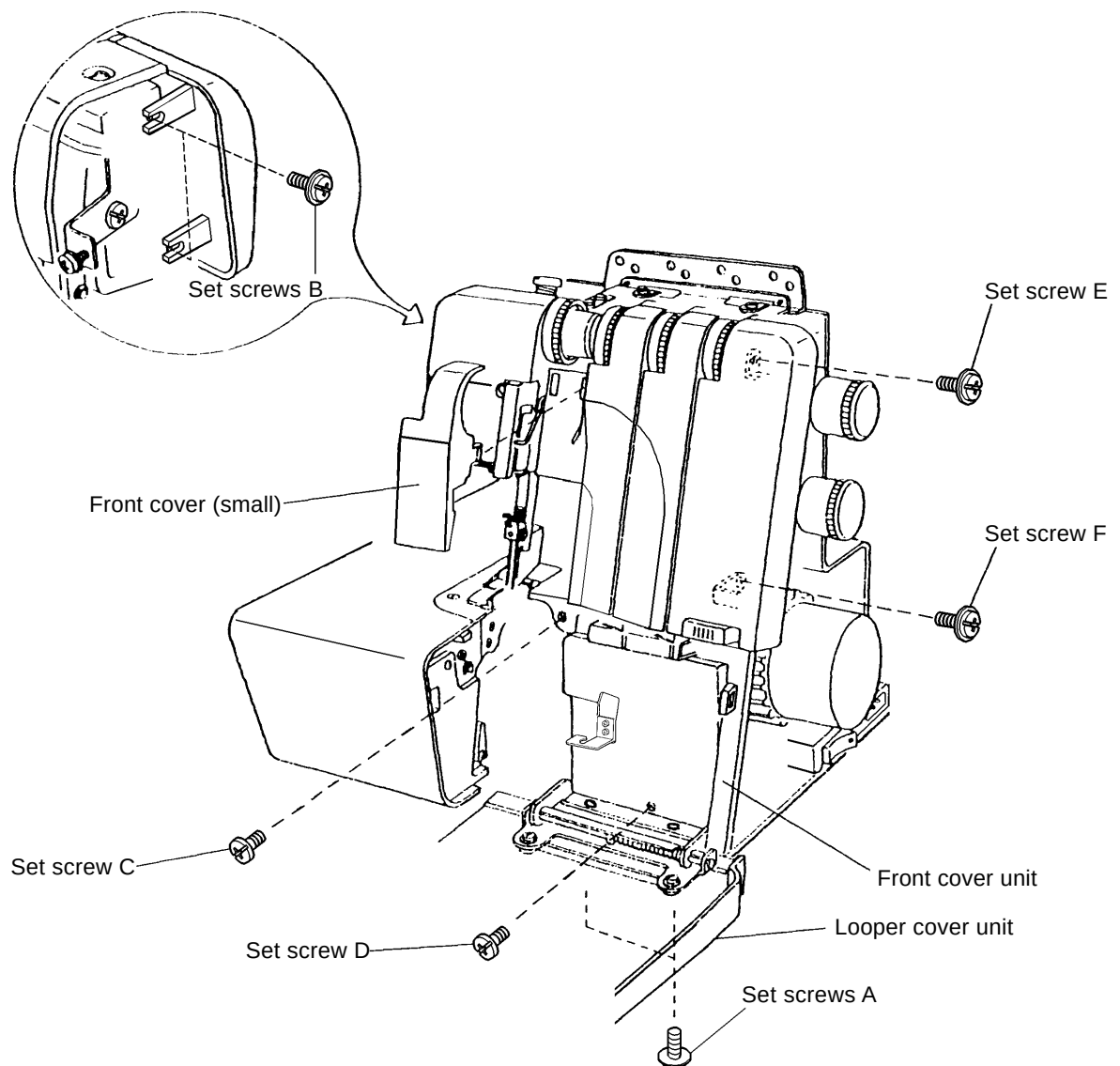
TO CHANGE THE FRONT COVER UNIT

To remove:

1. Remove the set screws A and looper cover unit.
2. Remove the face plate unit and belt cover unit.
3. Remove the front cover (small).
4. Move the upper looper to its lowest point by turning the handwheel in counter clockwise.
5. Remove the set screws B, C, D, E and F and remove the front cover unit.

To attach:

6. Attach the front cover unit, and tighten the set screws B, C, D, E and F.
7. Insert the hook on the right side of the front cover (small) into the hole on the front cover.
- While pressing the right hook against the upper edge of the hole, push the left side of the front cover (small) to snap the left hook into the left hole.
8. Attach the belt cover unit and face plate unit.
9. Attach the looper cover unit and tighten the set screws A.



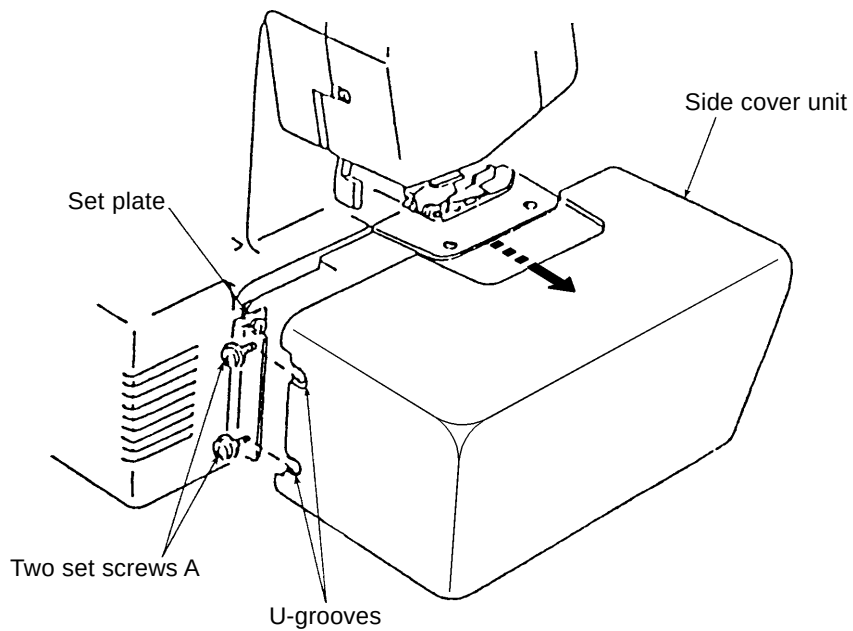
TO CHANGE THE SIDE COVER UNIT

To remove:

1. Loosen set screws A and remove the side cover unit.

To attach:

2. Fit the U-grooves of side cover between set screws A and set plate.
3. Tighten the set screws A.



TO CHANGE THE MACHINE BASE UNIT

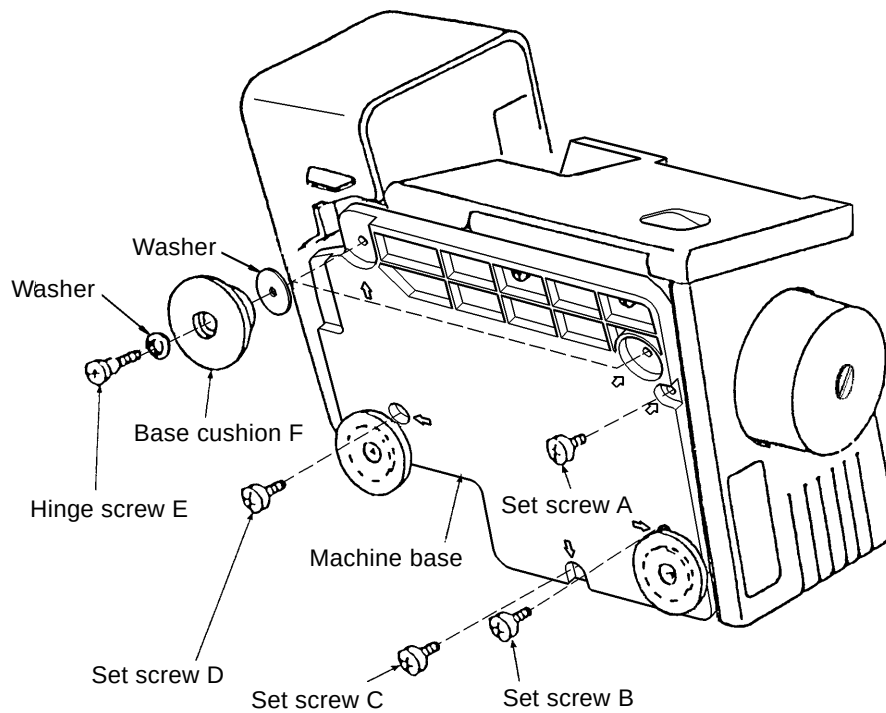
To remove:

1. Remove set screws A, B, C, D and two hinge screws E, and remove two base cushions F and washers.
2. Remove the machine base unit.

NOTE: Do not remove another two base cushions.

To attach:

3. Attach the machine base unit, and tighten set screws A, B, C and D.
4. Attach the two base cushions F, washers, and tighten hinge screws E.



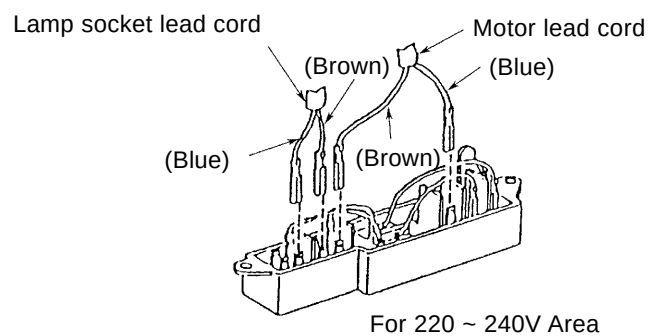
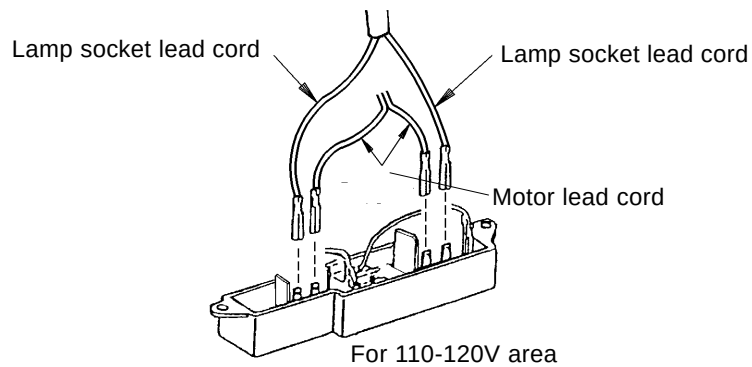
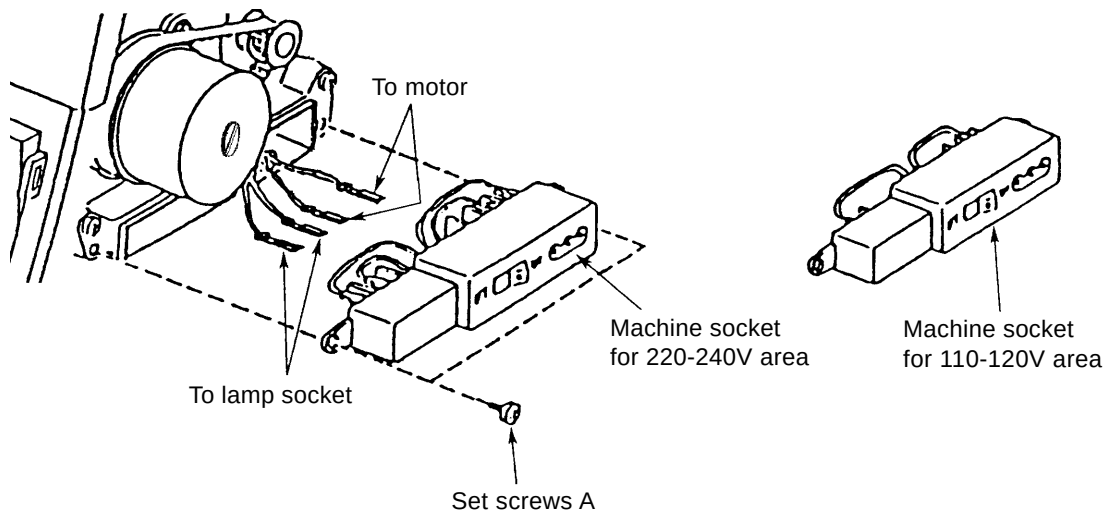
TO CHANGE THE MACHINE SOCKET

To remove:

1. Remove the belt cover unit.
2. Remove the two set screws A, and pull out the cord connectors.

To attach:

3. Insert the cord connectors as shown below.
4. Attach the machine socket, and tighten the two screws A.
5. Attach the belt cover unit.



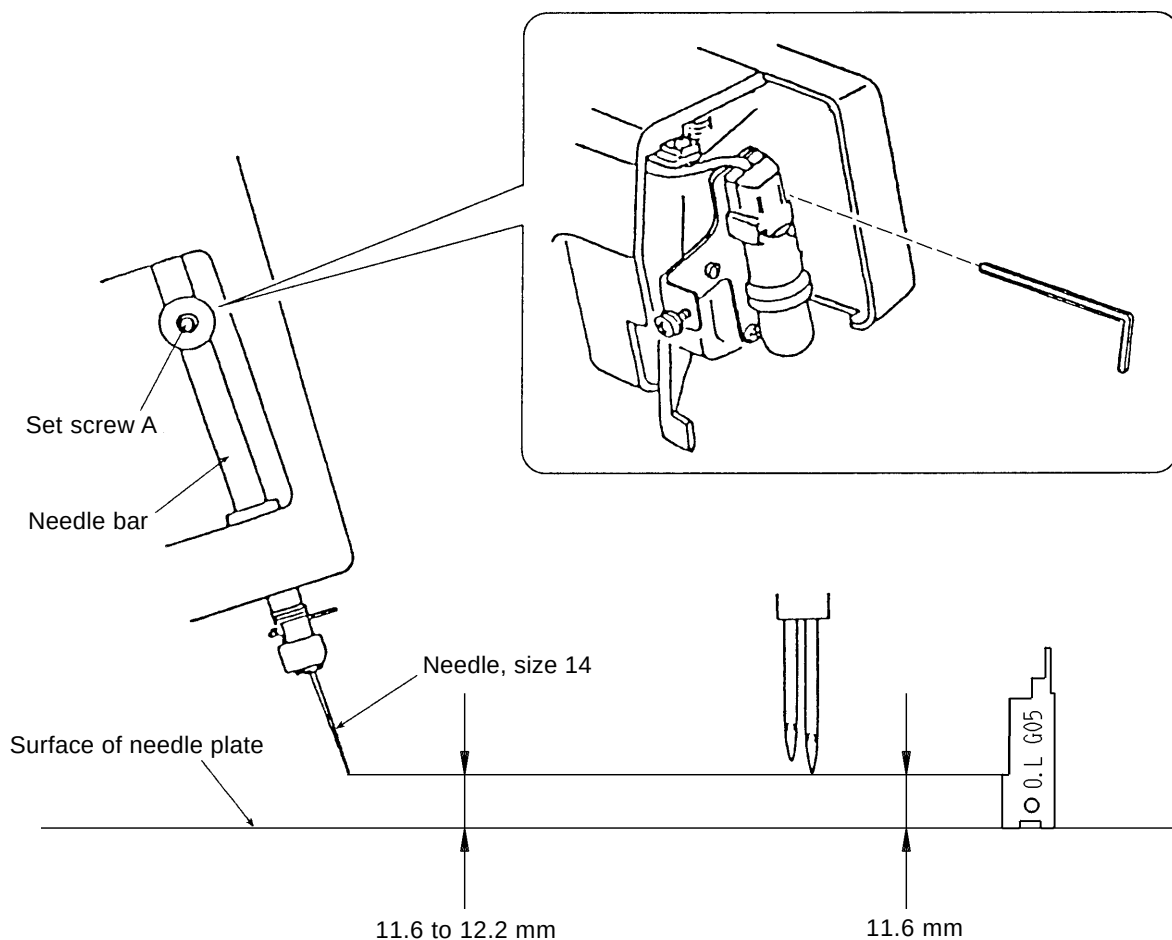
TO ADJUST THE NEEDLE HEIGHT

Correct Setting:

The distance between the tip of needle on the right and the surface of needle plate should be 11.6 to 12.2 mm when the needle bar is at the highest position.

To adjust:

1. Remove the face plate unit.
2. Turn the handwheel toward you with your hand, and set the needle bar at the highest position.
3. Loosen the set screw A to adjust the height, and tighten set screw A after the adjustment is done.
4. Turn the handwheel toward you one cycle, and recheck the needle bar height.
5. Attach the face plate unit.



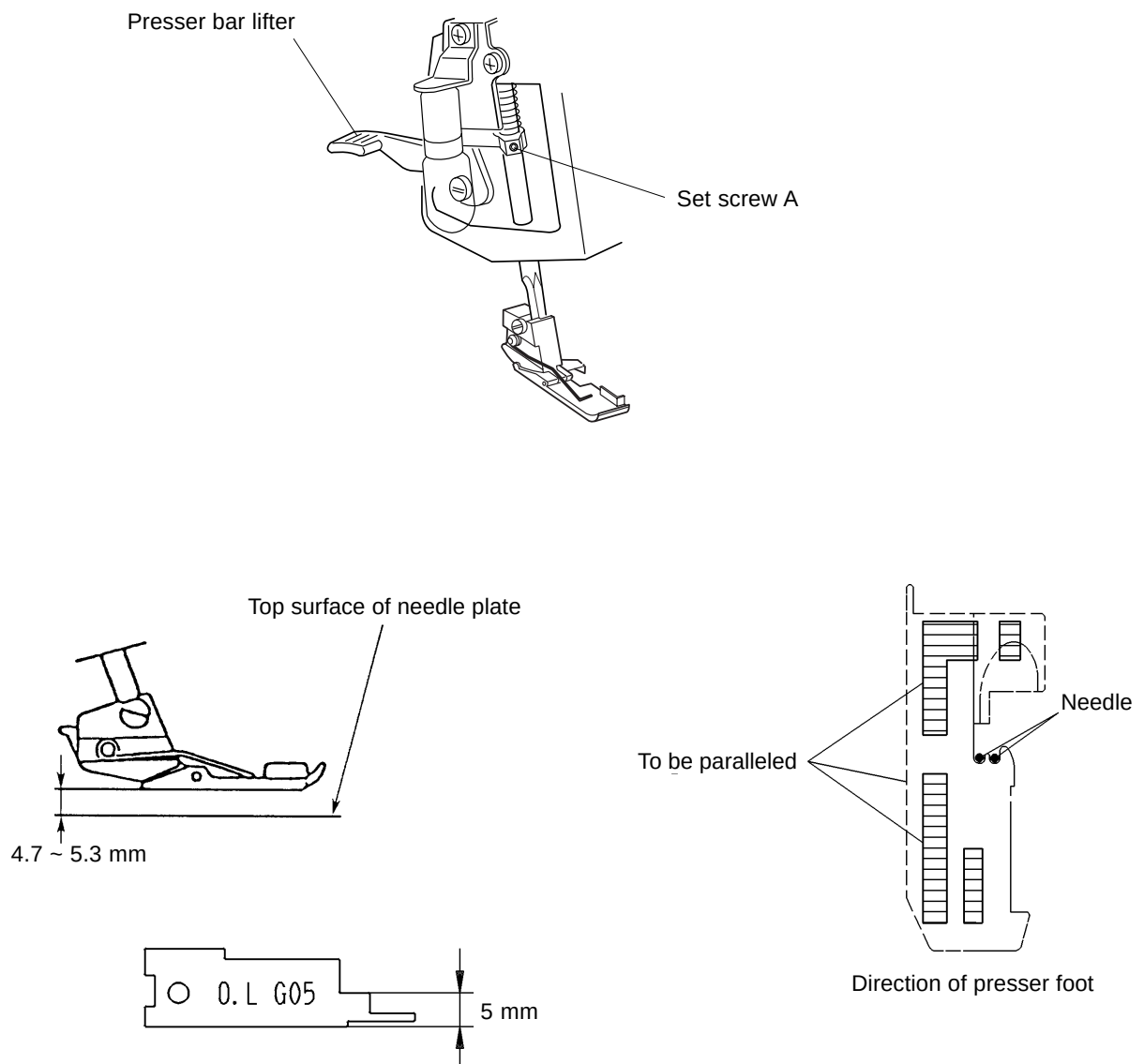
TO ADJUST THE PRESSER BAR HEIGHT

Correct Setting:

The distance between the surface of needle plate and bottom of presser foot should be 4.7 to 5.3 mm when the presser bar lifter is raised.

To adjust:

1. Remove the looper cover unit, belt cover unit and front cover unit.
2. Raise the presser bar lifter, and loosen the set screw A.
Then adjust the presser bar height, the side of presser foot should be parallel with the hole of needle plate.
3. Tighten the set screw A.
4. Attach the front cover unit, looper cover unit, belt cover unit and face plate unit.



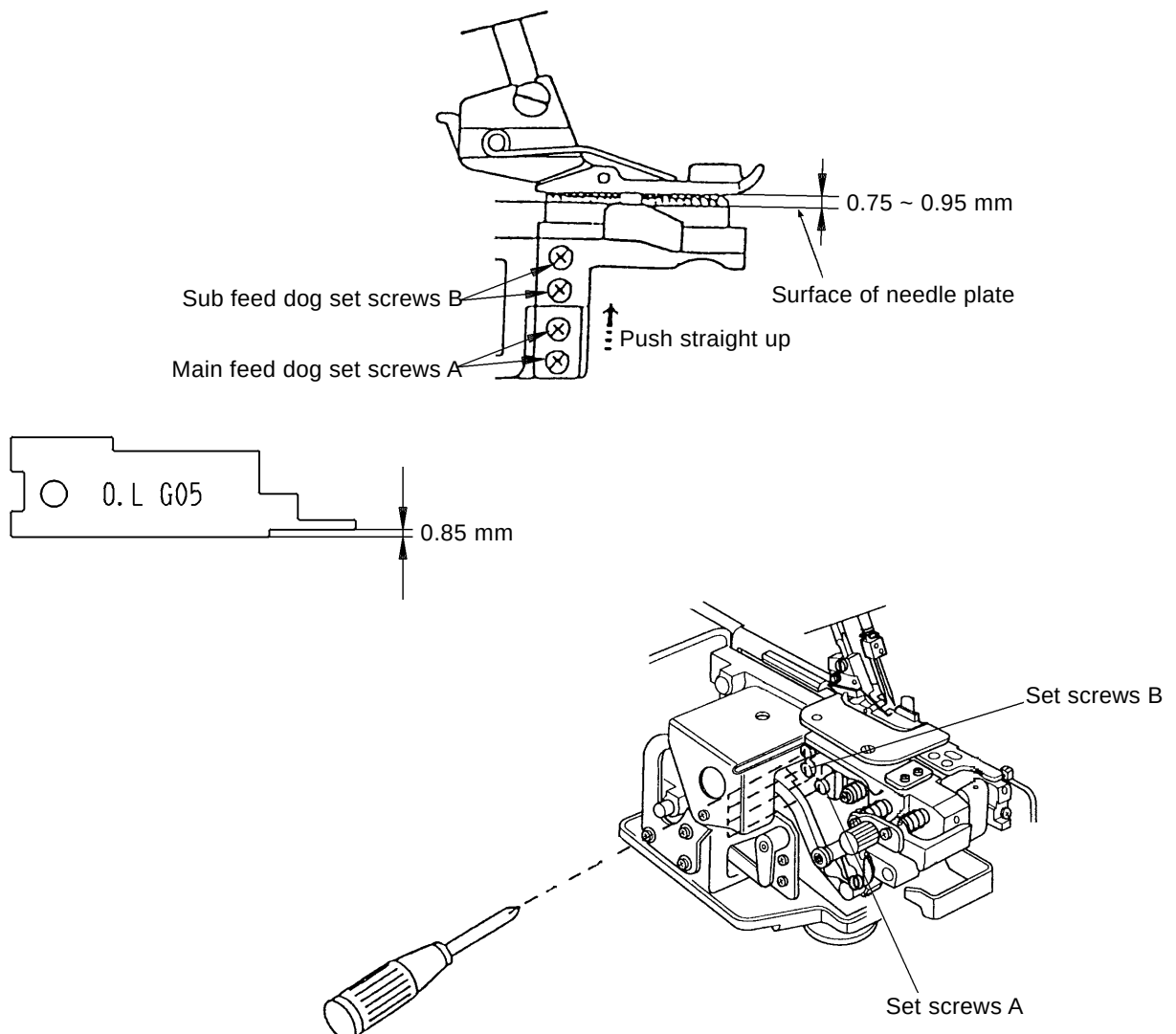
TO ADJUST THE FEED DOG HEIGHT

Correct Setting:

When the presser foot is lowered and feed dogs are at their highest position, the distance between the surface of needle plate and bottom of presser foot should be 0.75 to 0.95 mm.

To adjust:

1. Set the stitch length dial at "3" and the differential feed dial at "1.0".
2. Lower the presser foot and raise the feed dogs to their highest position by turning the handwheel.
3. Loosen the main & sub feed dog set screws A, B (4 pcs.).
4. Push the main feed dog straight upward and adjust the distance between the surface of needle plate and bottom of presser foot, then tighten set screws A (2 pcs.).
5. When the top of the main feed dog is level with the top surface of needle plate in its downward motion by turning the handwheel, push the sub feed dog straight upward until its top surface is to be level with the top surface of needle plate. Then tighten the set screws B of sub feed dog.
6. Check if these feed dogs are attached in parallel to the surface of needle plate while turning the handwheel.



TO ADJUST THE TIMING OF THE NEEDLE AND THE FEED DOG

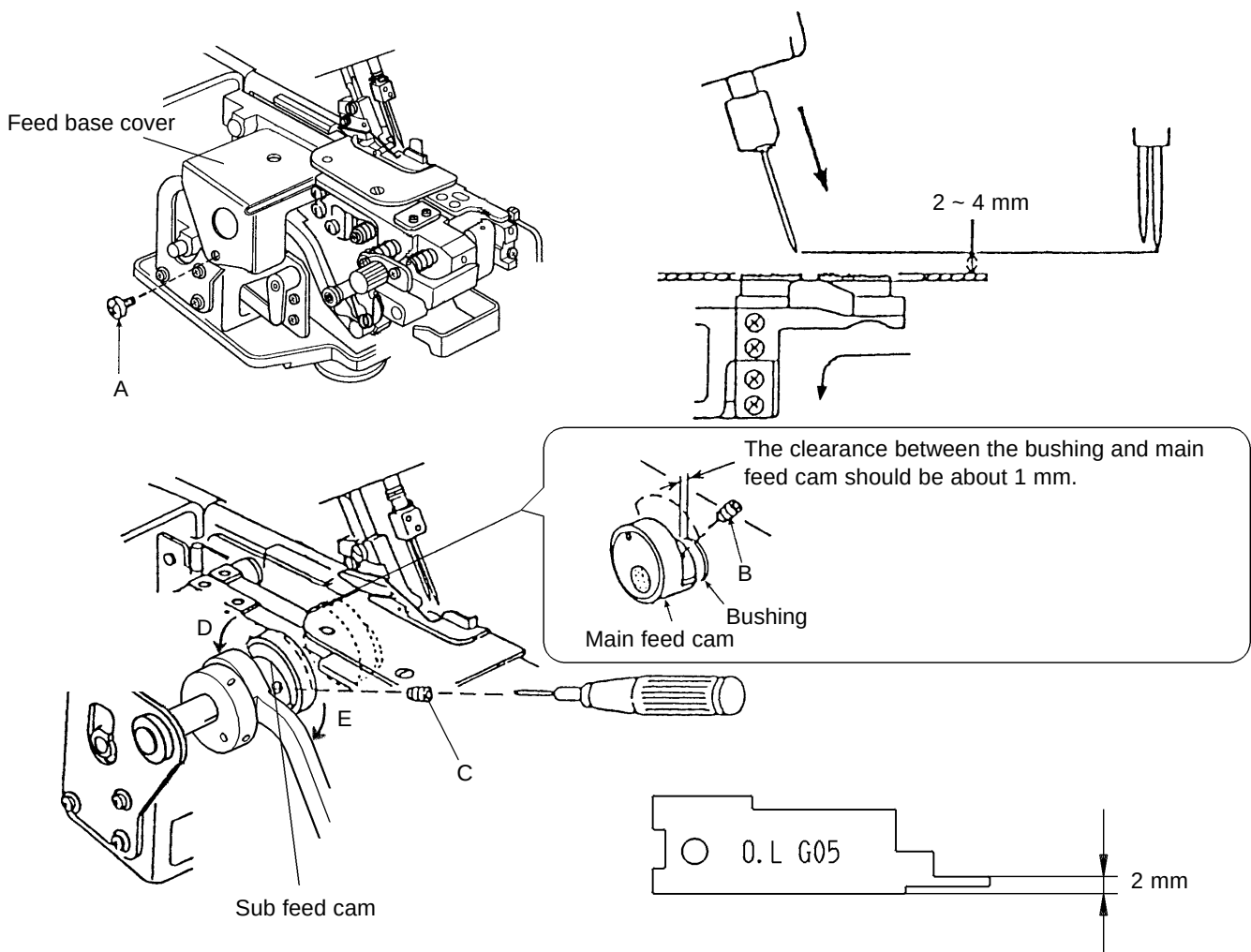
Correct Setting:

When the tip of right needle is at 2 to 4 mm above the needle plate in its downward motion, and presser foot lowered, the top of the feed dog teeth should be level with the top surface of needle plate at their rearmost position.

Before adjustment, check if the needle bar height and the feed dog height are correct.

To adjust:

1. Remove set screw A, remove the feed base cover.
 2. Set the stitch length dial at "3" and the differential feed dial at "1.0".
 3. Raise the presser foot and move the tip of right needle to 3 mm above the needle plate in its downward motion by turning the handwheel.
 4. Lower the presser foot, and loose two set screws B for main feed cam, two set screws C for sub feed cam, and adjust the position of the sub feed cam and tighten set screws C.
 - * Turn the sub feed cam to the direction D if the feed dog is lower than the surface of the needle plate.
 - * Turn the sub feed cam to the direction E if the feed dog is higher than the surface of the needle plate.
 5. Set the main feed cam to keep the clearance between the bushing and main feed cam to about 1 mm, and tighten two set screws B.
- Attach the feed base cover with set screw A.



TO ADJUST THE TIMING OF THE NEEDLE AND THE UPPER KNIFE

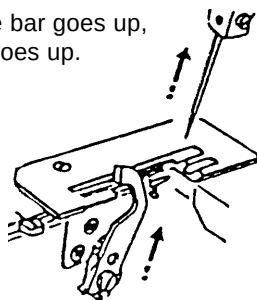
Correct Setting:

The upper knife timing is the same as that of the needle bar. In fact, when the needle bar is at highest position, the upper knife should be also at its highest position.

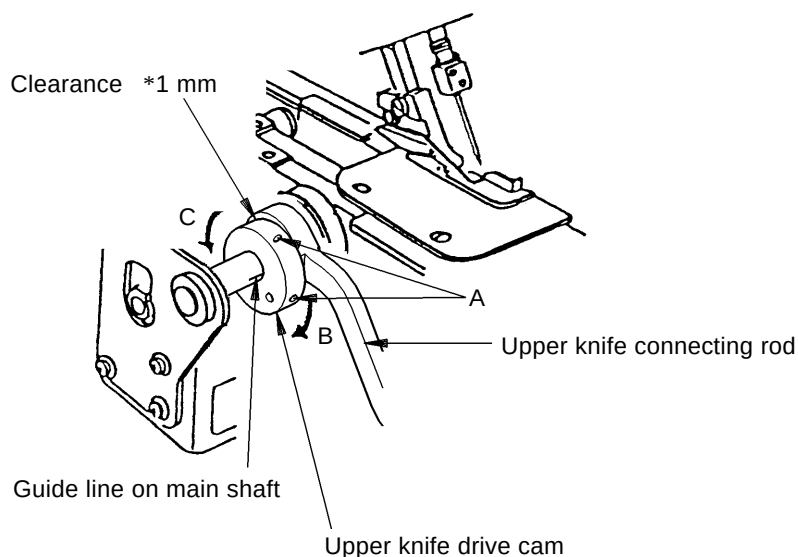
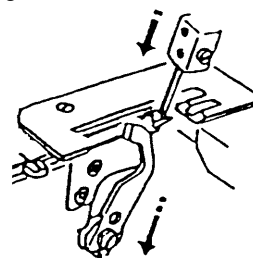
To adjust:

1. Remove the feed base cover.
2. Loosen two set screws A, and adjust the needle and upper knife timing.
3. * Turn the upper knife drive cam to the direction B when the upper knife timing is being delayed.
* Turn the upper knife drive cam to the direction C when the upper knife timing is too soon.
4. Tighten the two set screws A firmly.
* The clearance between the upper knife drive cam and upper knife connecting rod should be 1 mm.
5. Turn the handwheel toward you one cycle, and recheck the needle and the upper knife timing.
Attach the feed base cover.

When the needle bar goes up,
the upper knife goes up.



When the needle bar goes down,
the upper knife also goes down.



TO ADJUST THE CLEARANCE BETWEEN THE NEEDLES AND THE LOWER LOOPER/NEEDLE GUARDS

(1 of 3)

Correct setting:

Both right and left needles should have an equal clearance from the front edge of the needle holes on the needle plate.

The standard clearance between the left and right needle and the lower looper is 0 mm to 0.05 mm.

The standard clearance between the needles and the rear needle guard is 0 mm to 0.2 mm.

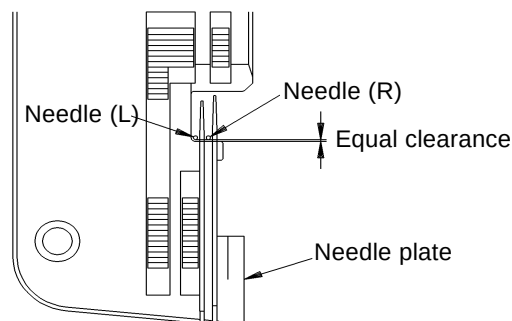
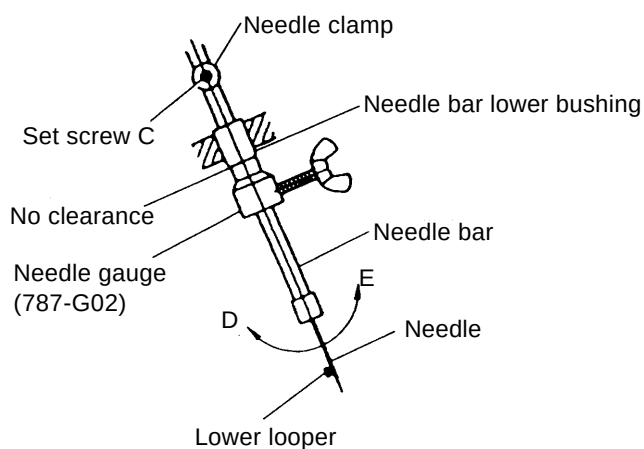
The above standard clearance allows the needle to slightly touch the front needle guard.

To adjust:

1. Remove the face plate unit, presser foot, needle plate and needles.
2. Before loosening set screw C, attach the needle gauge #787-G02 to prevent change of needle bar height during the adjustment.

Attach two #11 needles on the needle clamp and loosen the set screw C. Adjust the two needles, to make the clearance between both needles and the front edge of the needle hole of the needle plate equal by turning the needle bar in the D or E direction while pushing up the needle bar to prevent change of needle bar height.

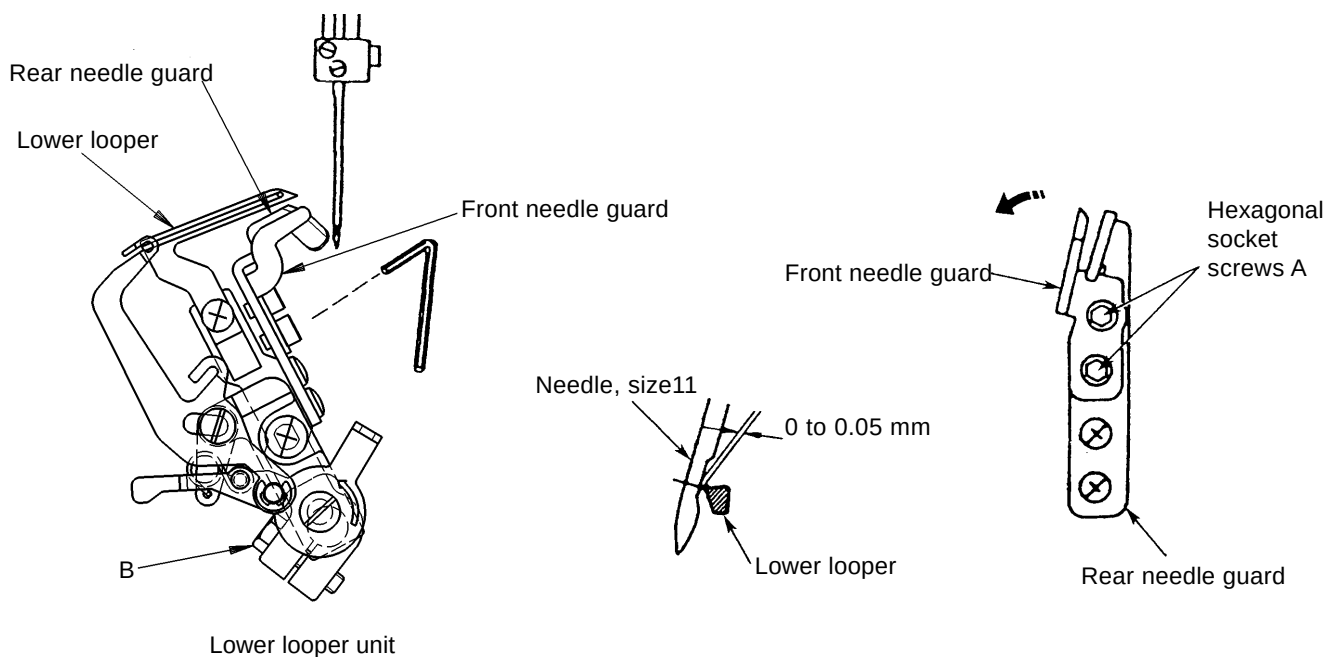
Retighten the set screw C and remove the needle gauge.



TO ADJUST THE CLEARANCE BETWEEN THE NEEDLES AND THE LOWER LOOPER/NEEDLE GUARDS

(2 of 3)

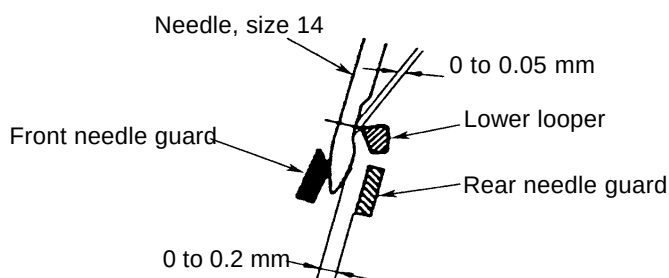
1. Remove the left needle only.
 2. Turn the handwheel toward you to bring the tip of the lower looper from the left hand to the rear side of the right needle.
 3. Loosen the hexagonal socket screws A on the front needle guard and open a space between the front needle guard and the needle.
 4. Next, loosen the hexagonal bolt B, and slide the lower looper unit to the front or to the back to adjust the clearance between the right needle and the lower looper. The clearance should be 0 mm to 0.05 mm.
- Retighten the hexagonal bolt B.



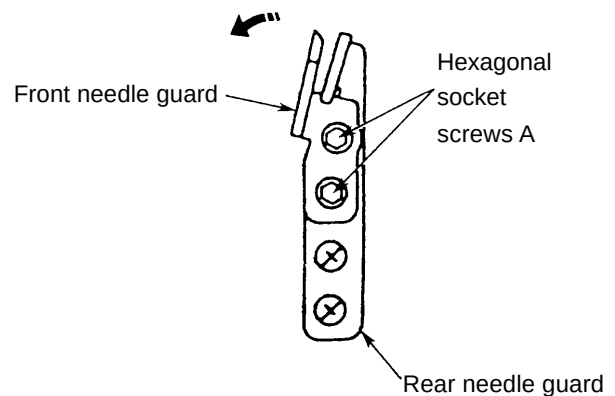
TO ADJUST THE CLEARANCE BETWEEN THE NEEDLES AND THE LOWER LOOPER/NEEDLE GUARDS

(3 of 3)

1. Change the right needle from size 11 to size 14.
2. Push the right needle by the front needle guard to adjust the clearance between the needle and the lower looper. The clearance should be 0 mm to 0.05 mm.
3. Attach size 14 needle on the left needle position and turn the handwheel toward you to check the clearance between the left needle and looper.
Make sure the front needle guard is touching the needle slightly and the rear needle guard is not touching the needle.
4. Check the timing between the needle and the lower looper.
5. Recheck the needle bar height and the clearance between the needle and the lower looper.



(Rear needle guard is not touching the needle)



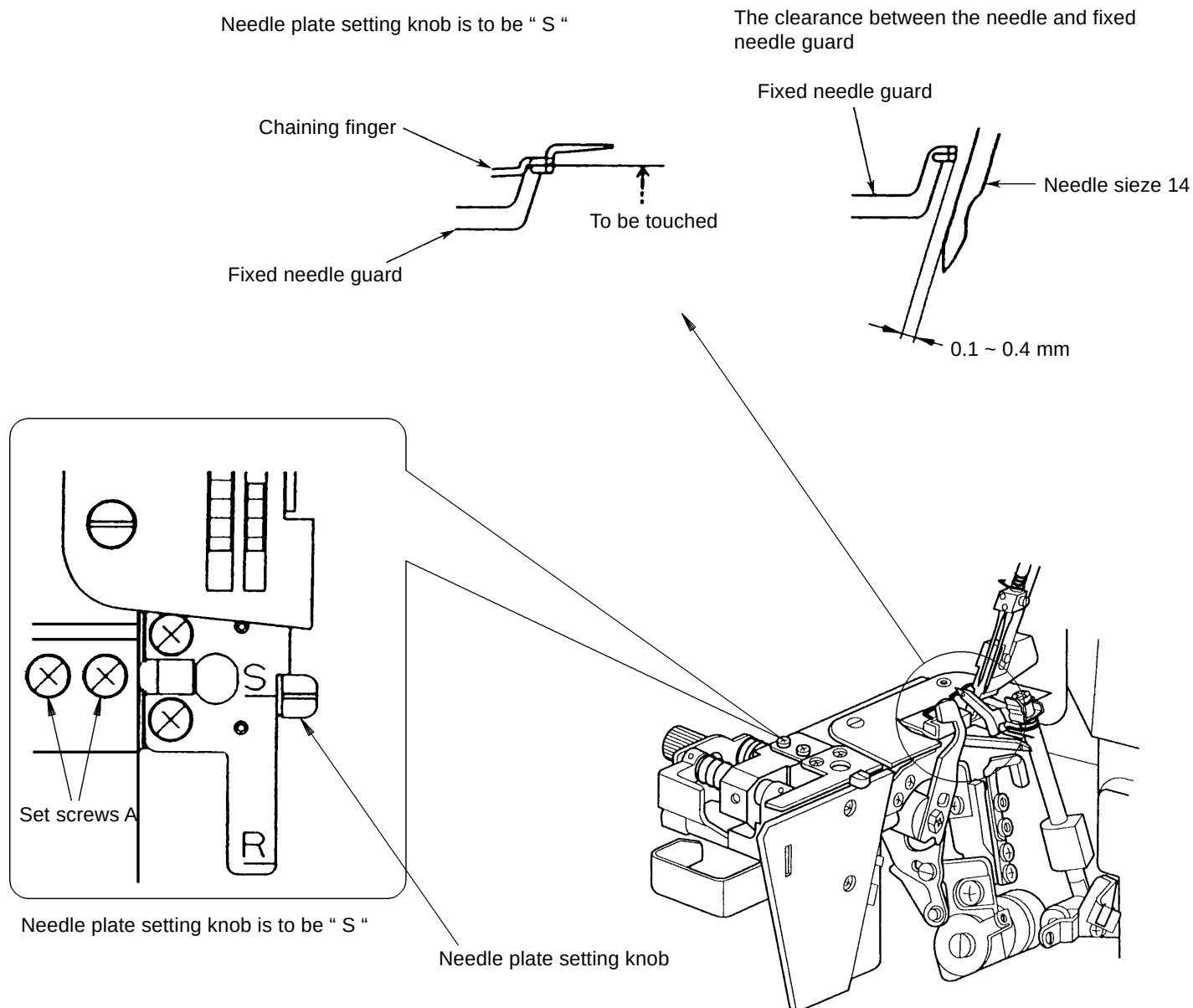
TO ADJUST THE CLEARANCE BETWEEN THE NEEDLES AND THE FIXED NEEDLE GUARD

Correct Setting:

The clearance between needles and the fixed needle guard should be 0.1 to 0.4 mm.

To adjust:

1. Remove the presser foot and the needle plate and lower the needle to its lowest position.
2. Loosen the set screws A and adjust the position of the fixed needle guard.
3. Tighten the set screws A.
4. Attach the needle plate and set the needle plate setting knob to guide line S.
5. Check the position of the chaining finger.
6. Attach the presser foot.



TO ADJUST THE POSITION OF THE CHAINING FINGER

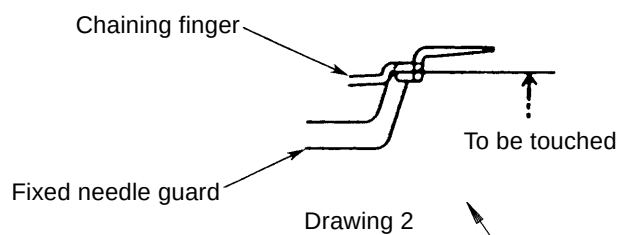
Correct Setting:

When set the needle plate setting knob to guide line S, chaining finger should touch side of needle plate, and tip of chaining finger should be same level with the tip of the needle on the needle plate.

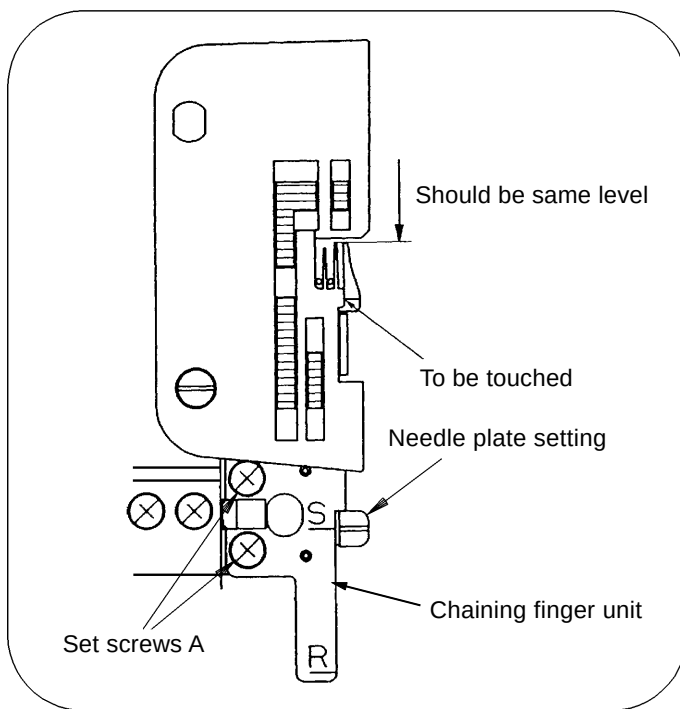
To adjust:

1. Remove the presser foot.
2. Set the needle plate setting knob to guide line S on chaining finger unit.
3. Loosen two set screws A, and move chaining finger unit to correct position.
4. Tighten two set screws A.
5. Set the needle plate setting knob to guide line S and R, and check the position of chaining finger.
6. Attach the presser foot.

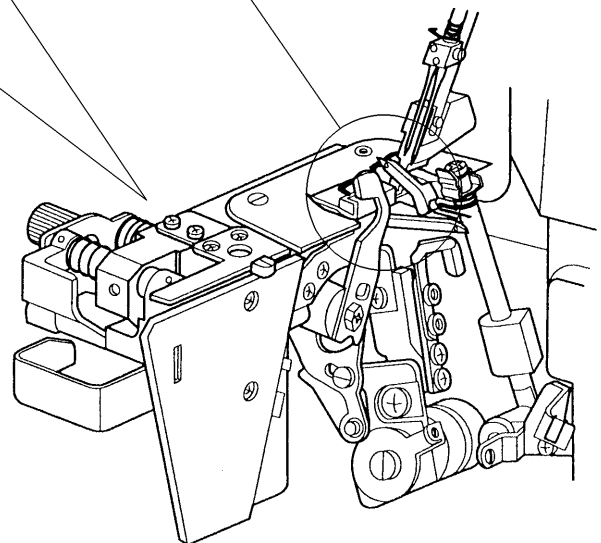
Needle plate setting knob is to be " S "



Drawing 2



knob
Drawing 1



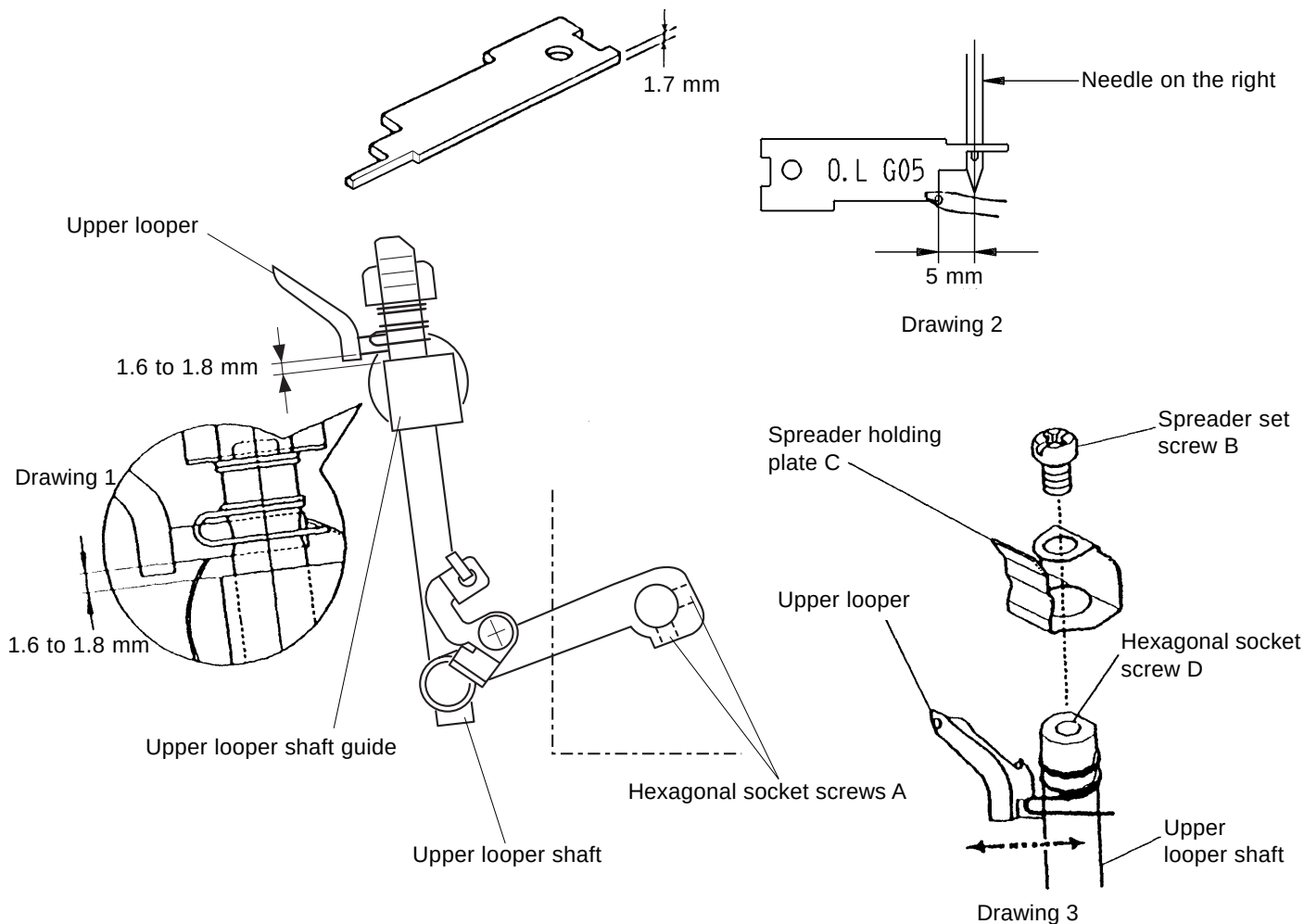
TO ADJUST THE POSITION OF THE UPPER LOOPER

Correct setting:

When the upper looper is at the leftmost position, the distance between the center of needle on the right and the center of looper eye should be 4.8 to 5.2 mm.

To adjust:

1. Remove the machine base.
2. Loosen the hexagonal socket screws A, and adjust the distance between upper looper shaft guide and bottom of upper looper. The distance should be 1.6 to 1.8 mm when the upper looper is at the lowest position as shown in Drawing 1.
3. Tighten the hexagonal socket screws A.
4. Turn the handwheel and bring the upper looper to the leftmost position.
5. Remove the spreader set screw B and spreader holding plate C.
6. Loosen the hexagonal socket screw D, and adjust the distance between the center of needle and center of upper looper eye as shown in Drawing 2.
7. Tighten the hexagonal socket screw D.
8. Set the spreader holding plate C to the upper looper shaft, and tighten the spreader set screw B.
9. Check the upper and lower loopers timing and clearance between upper and lower loopers.
10. Attach the machine base.



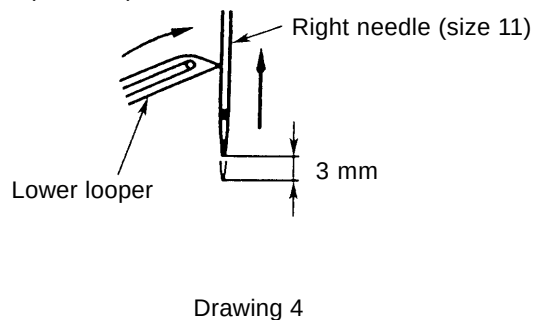
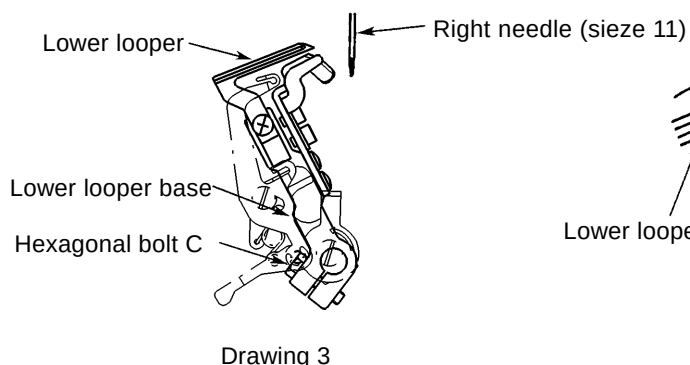
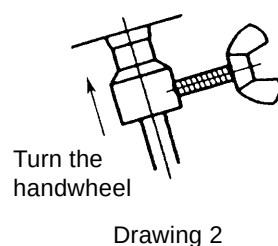
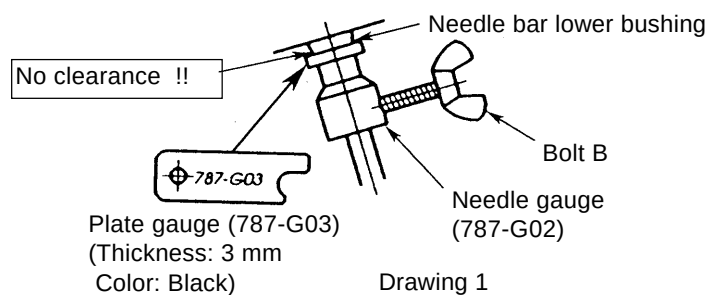
TO ADJUST THE TIMING OF THE NEEDLE AND THE LOWER LOOPER

Correct setting:

When the needle comes up 2.8 to 3.2 mm (7/64 to 1/8") from its lowest position, the tip of the lower looper comes just left of the needle (size 11) on the right.

To adjust:

1. Remove the presser foot, needle plate and left-side needle.
2. Replace right-side needle with a size 11 one.
3. Turn the handwheel toward you to get the lowest needle position.
4. Set the two gauges (787-G02, 787-G03), as shown in Drawing 1 and tighten bolt B.
* There should be no clearance between the gauges and the needle bar lower bushing.
5. Remove the plate gauge (787-G03). Then turn the handwheel toward you until the needle gauge touches the needle bar lower bushing, as shown in Drawing 2.
6. In this condition, loosen the hexagonal bolt C just enough to move the lower looper base.
Adjust the lower looper position in order to meet the tip of lower looper with left-side of needle (size 11) as shown in Drawing 4.
Tighten hexagonal bolt C.
7. Remove the gauge (787-G02).
* Check the clearance between the needle and lower looper.
* Check the clearance between the loopers.
8. Replace the right side needle with a size 14 one.
9. Attach the needle, needle plate and presser foot.
* Be careful not to tighten bolt B too much.



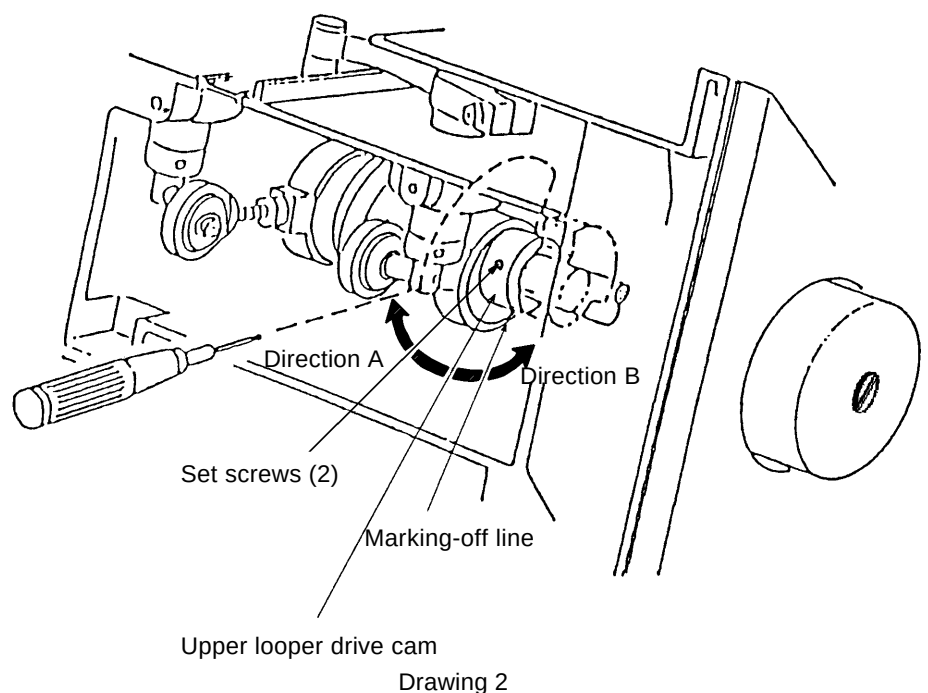
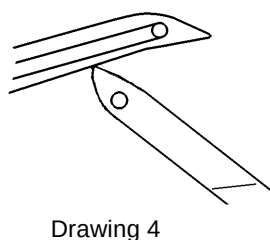
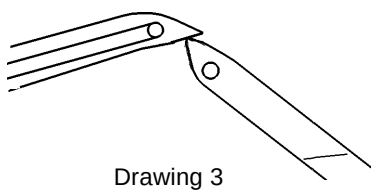
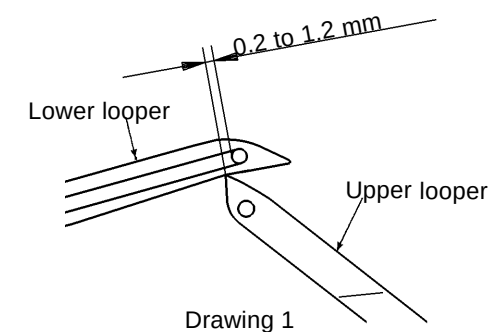
TO ADJUST THE TIMING OF THE UPPER AND LOWER LOOPERS

Correct Setting:

When the lower looper moves to the right, the tip of upper looper meets the lower looper within 0.2 to 1.2 mm from the left of lower looper eye as shown in Drawing 1.

To adjust:

1. Before proceeding with this adjustment, check the lower looper timing and the position of upper looper.
2. Remove the machine base.
3. Loosen two set screws, and adjust the timing by turning the upper looper drive cam in the direction of:
 - A) if the timing of upper looper is advanced as shown in Drawing 3.
 - B) if the timing of upper looper is delayed as shown in Drawing 4.The allowance is 0.2 to 1.2 mm from the left edge of lower looper eye as shown in Drawing 1.
4. Tighten two set screws.
5. Check the clearance between the loopers.
6. Attach the machine base.



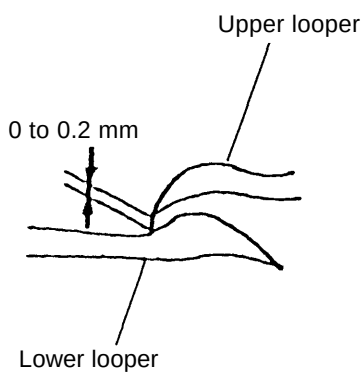
TO ADJUST THE CLEARANCE BETWEEN THE LOOPERS

Correct Setting:

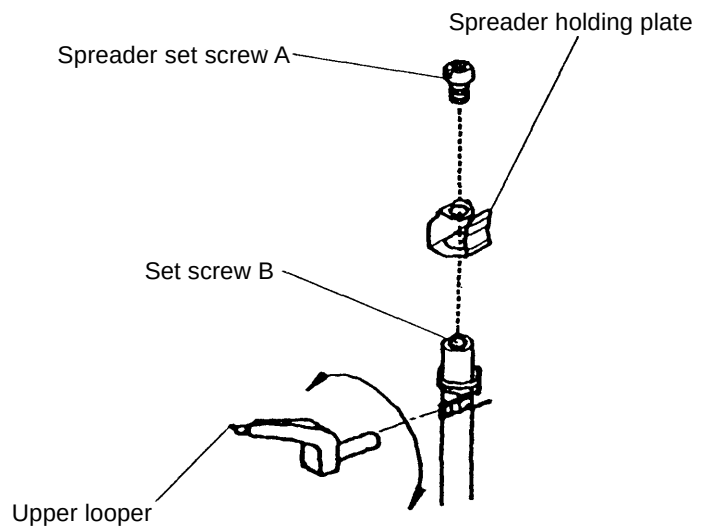
When the upper and lower loopers meet as shown in Drawing 2, the clearance should be 0 to 0.2 mm as shown in Drawing 1.

To adjust:

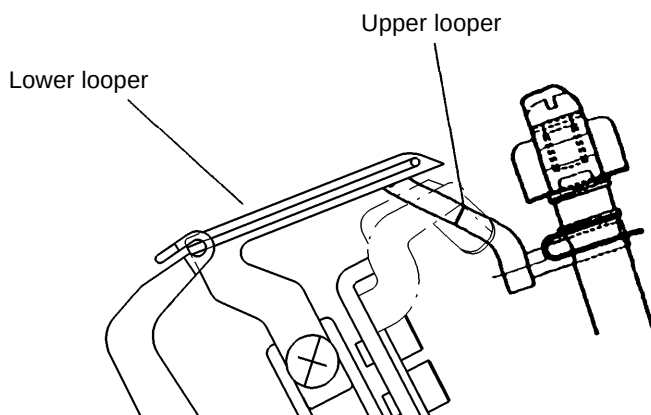
1. Remove the spreader set screw A and the spreader holding plate.
2. Turn the handwheel toward you with your hand to bring the loopers as shown in Drawing 2.
3. Loosen the set screw B, and adjust the clearance between the loopers by moving the upper looper to the back or front as shown in Drawing 3.
4. Tighten the set screw B firmly.
5. Check the clearance between the upper looper and needle.
6. Set the spreader holding plate and tighten the spreader set screw A.



Drawing 1



Drawing 3



Drawing 2

TO ADJUST THE CLEARANCE BETWEEN THE NEEDLE AND THE UPPER LOOPER

Correct Setting:

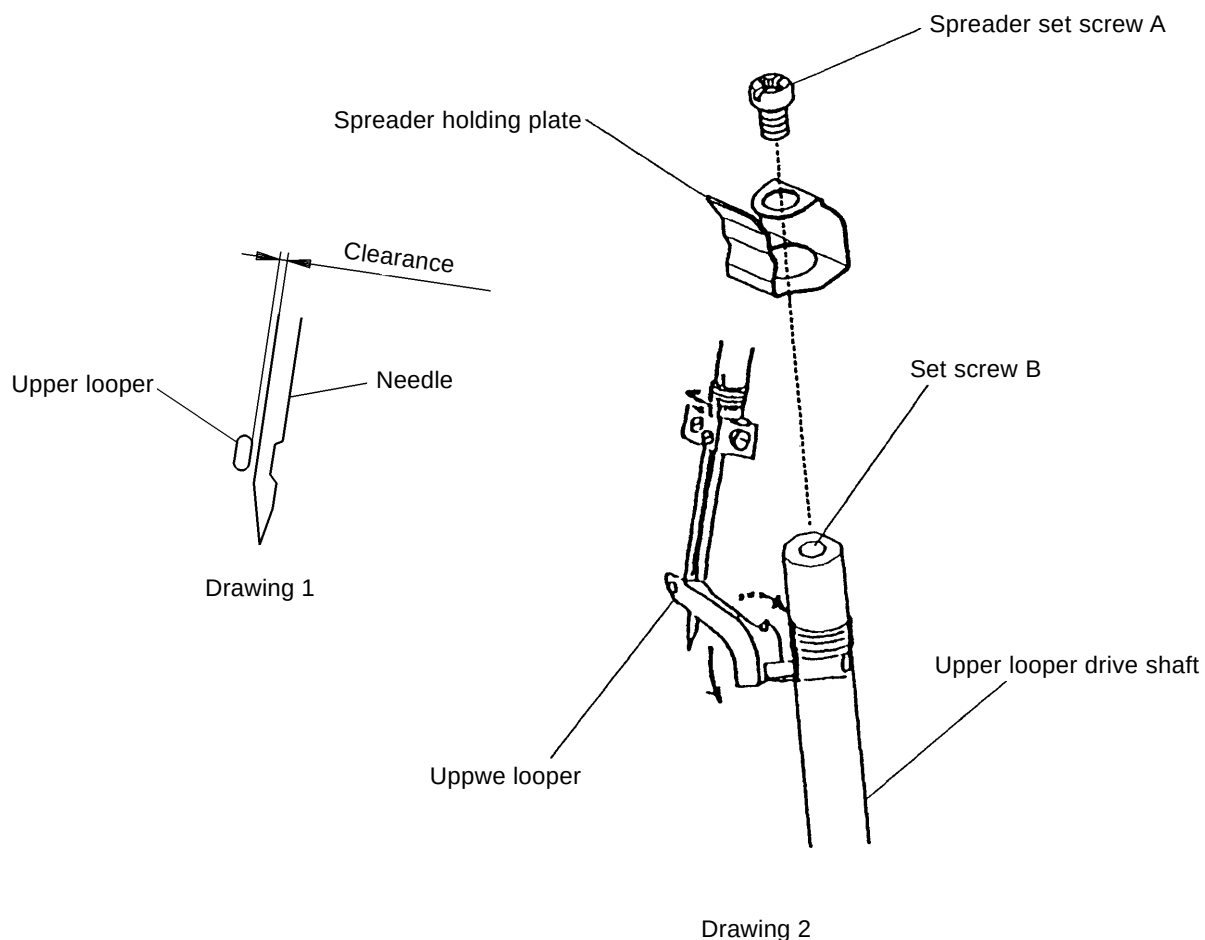
When the upper looper meets with needle, the clearance should be:

0 to + 0.1 mm at the needle on the left.

– 0.05 to + 0.05 mm at the needle on the right.

To adjust:

1. Remove the spreader set screw A and the spreader holding plate .
2. Turn the handwheel toward you with your hand to bring the needle just behind the upper looper in downward travel.
3. Loosen the set screw B, and adjust the clearance between the both needles and upper looper.
4. Tighten the set screw B.
5. Check the clearance between the loopers.
6. Set the spreader holding plate and tighten the spreader set screw A.



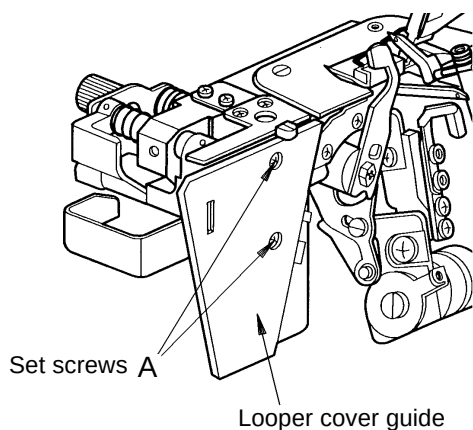
TO ADJUST THE POSITION OF THE KNIVES

Correct Setting:

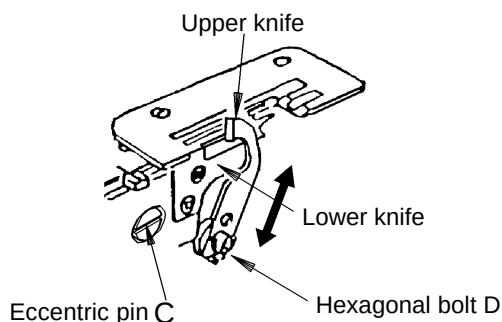
- * The tip of the lower knife should be leveled with the surface of needle plate. When the upper knife is at the lowest position, the front lower corner of the upper knife should be 0.8 to 1.5 mm below the edge of the lower knife.

To adjust:

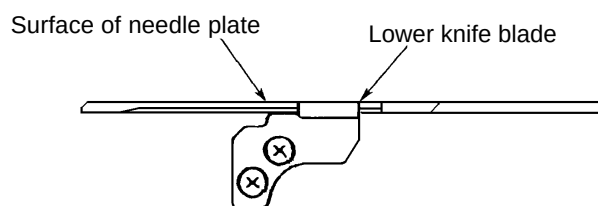
1. Before proceeding with this adjustment, check the upper knife timing (see page 13).
2. Loosen screws A (2 screws) to remove the looper cover guide.
3. Loosen the lower knife shaft set screws B and turn the eccentric pin C slowly, then adjust the lower knife position. Tighten set screws B. (Drawing 2 ~ 4)
4. Turn the handwheel toward you to bring upper knife to its lowest position.
5. Loosen the hexagonal bolt D, and adjust the position of the upper knife.
6. Tighten hexagonal bolt D firmly, turn the handwheel toward you to check the upper knife matching position with the lower knife.



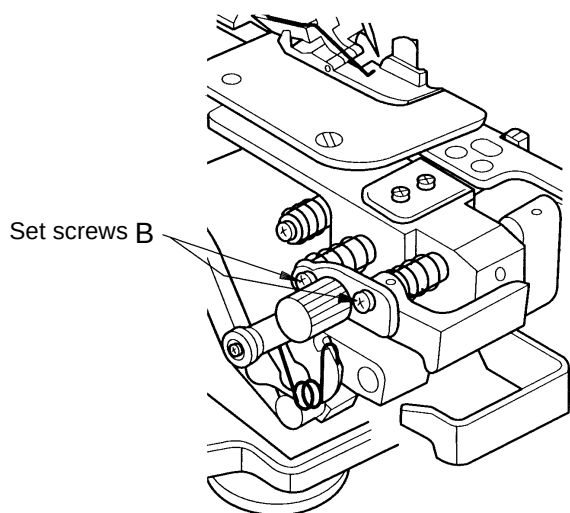
Drawing 1



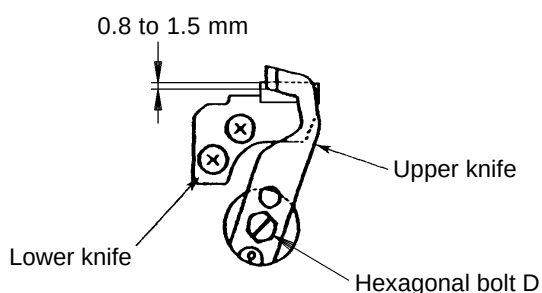
Drawing 3



Drawing 4



Drawing 2



Drawing 5

TO ADJUST THE POSITION OF THE LOWER LOOPER THREAD GUIDE

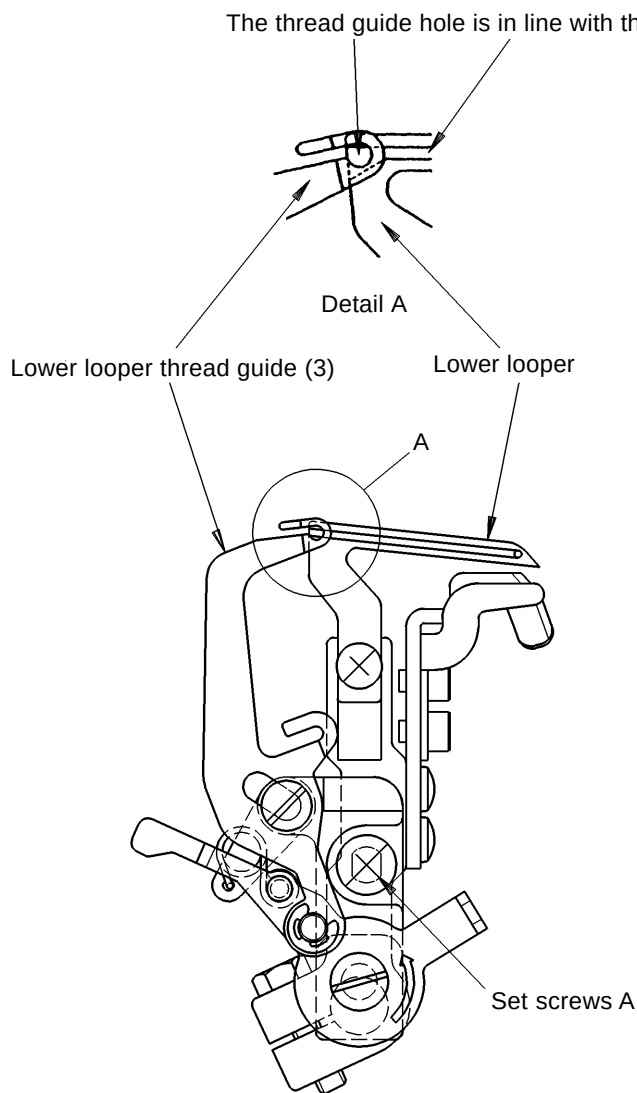
Lower looper thread guide (3)

Loosen the set screw A, and adjust the lower looper thread guide (3) so that the hole of thread guide is in line with the groove of lower looper as shown in Drawing 1.

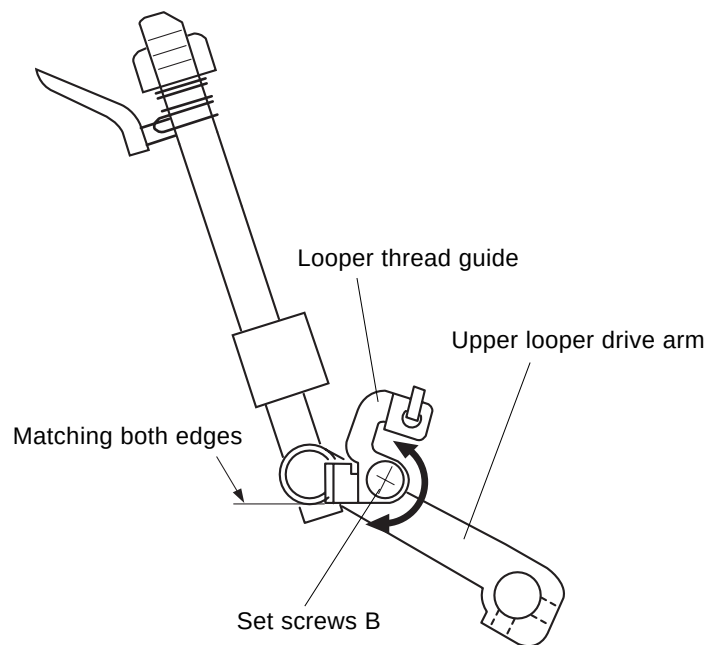
Looper thread guide

Loosen set screw B, and swing the looper thread guide up or down to match the bottom edge of both looper thread guide and upper looper drive arm as shown in Drawing 2.

Tighten the set screw B to secure the position.



Drawing 1



Drawing 2

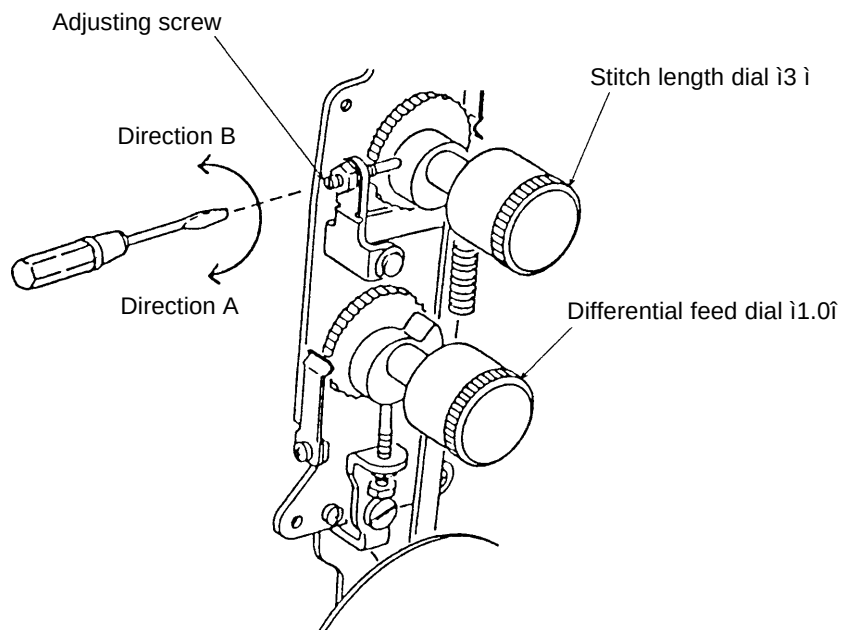
TO ADJUST THE STITCH LENGTH

Correct Setting:

The actual stitch length should be 2.8 to 3.0 mm when the stitch length dial is set at “ 3 ” and differential feed dial at “ 1.0 ”.

To adjust:

1. Set the stitch length dial at “ 3 ” and the differential feed dial at “ 1.0 ”.
2. Remove the front cover unit.
3. If the actual stitch length is longer than 3.0 mm, turn the adjusting screw in the direction A.
If the actual stitch length is shorter than 2.8 mm, turn the adjusting screw in the direction B.
4. Attach the front cover unit.



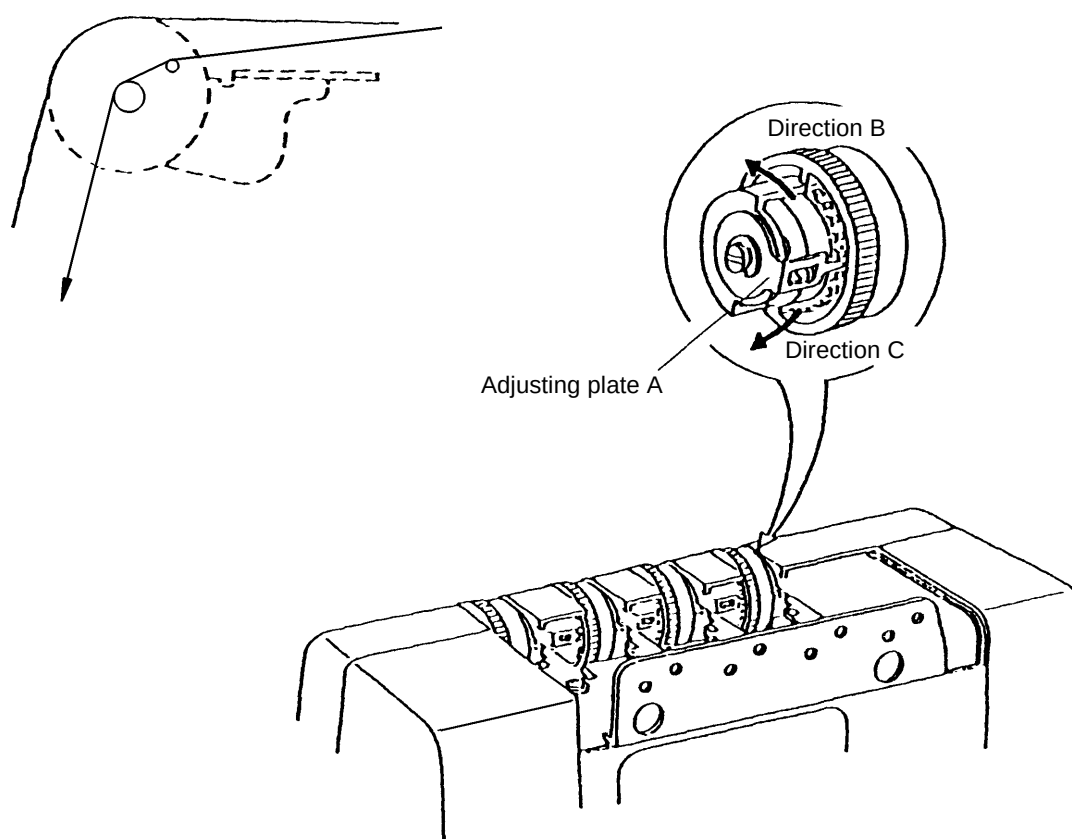
TO ADJUST THE THREAD TENSION DIALS

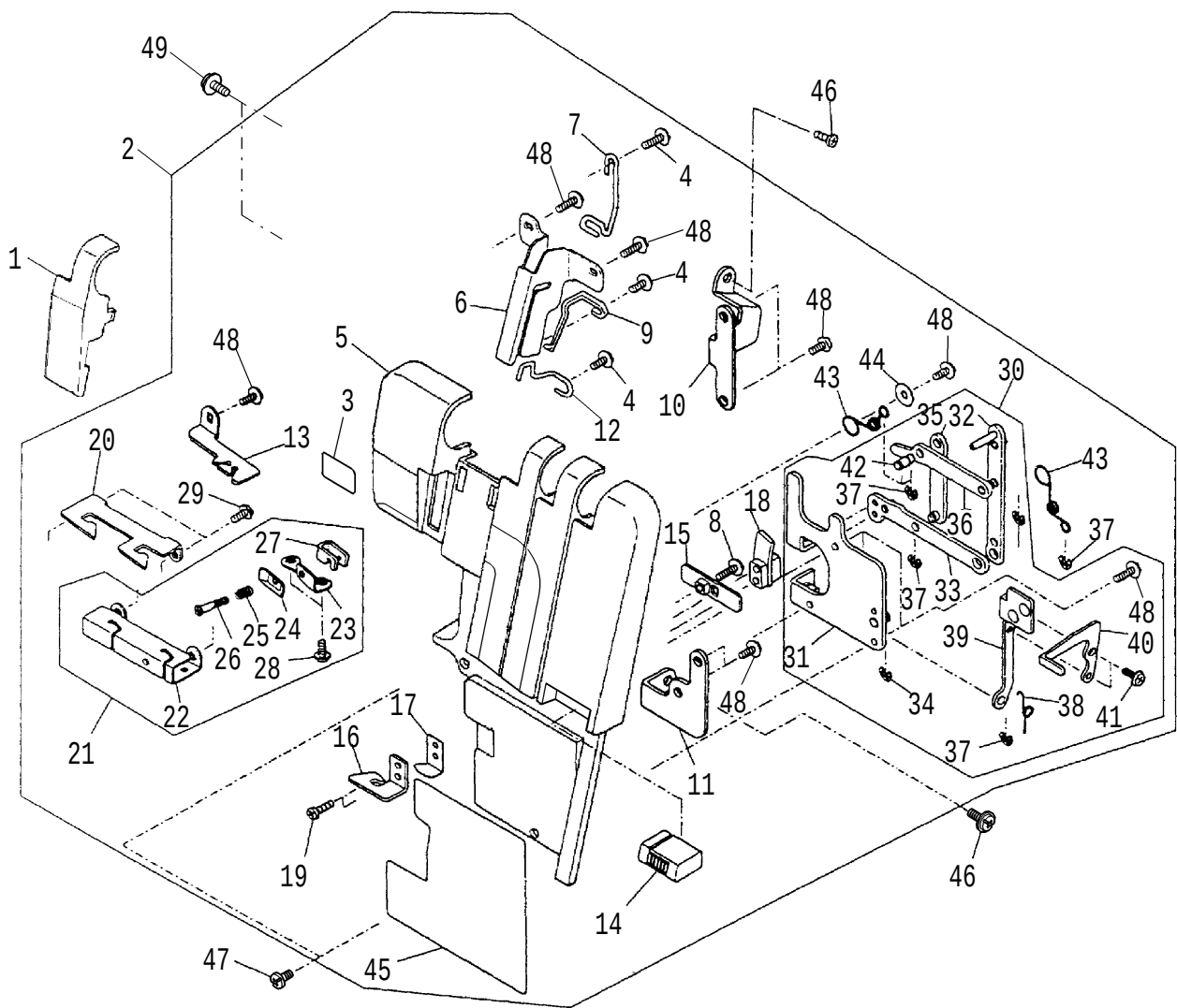
To check:

Thread tension dials are already adjusted for general sewing at factory, however, if you want much stronger or weaker tension settings for special sewing needs, it can be adjusted as follows:

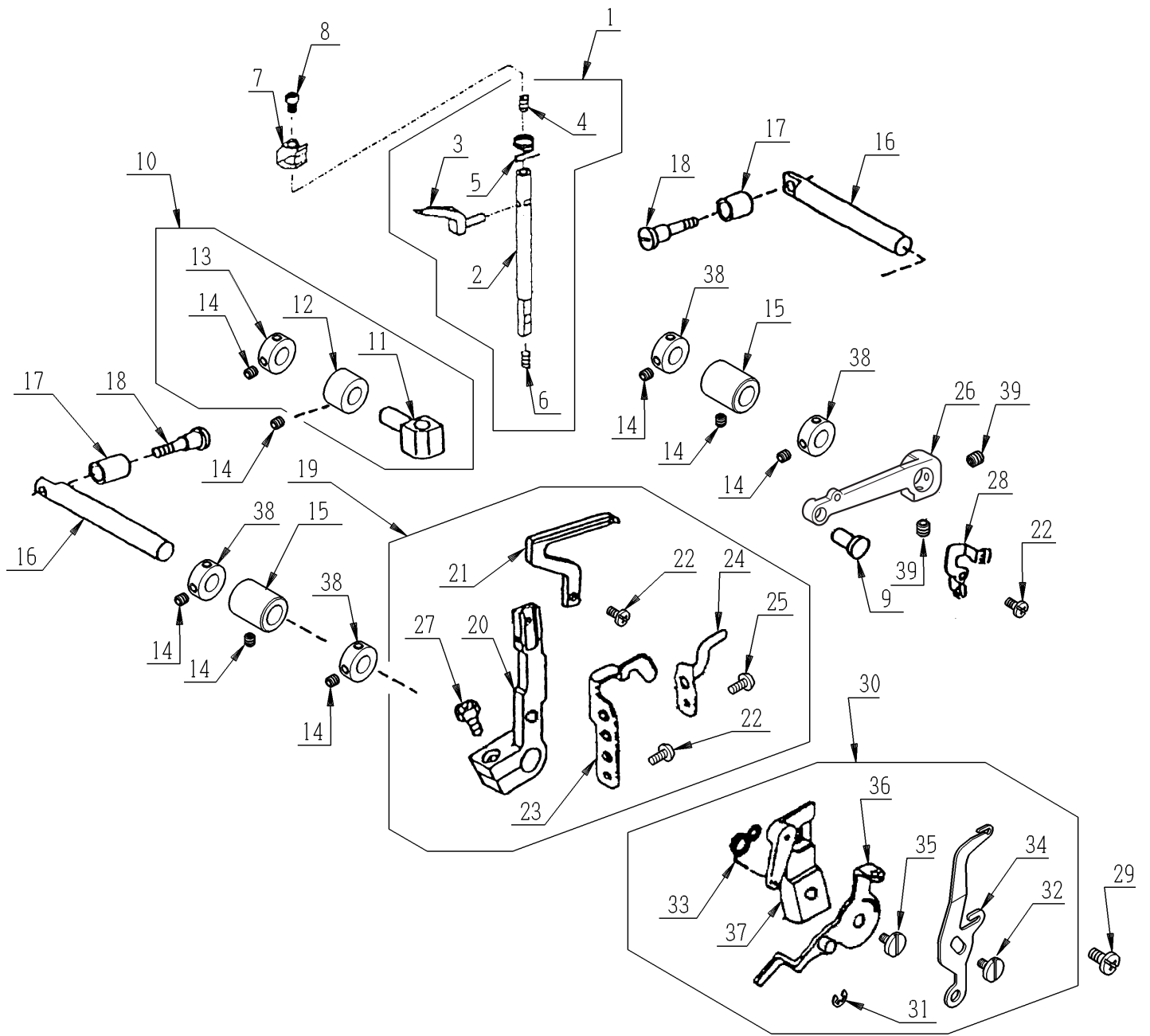
Adjustment procedure:

1. Remove the top cover.
2. Adjust each thread tension with the adjusting plate A.
 - * If the thread tension is at stronger level, shift the adjusting plate in the direction B.
 - * If the thread tension is at weaker level, shift the adjusting plate in the direction C.
3. Rotate the thread tension dial while sewing to check the sewing performance.
4. Replace the top cover.

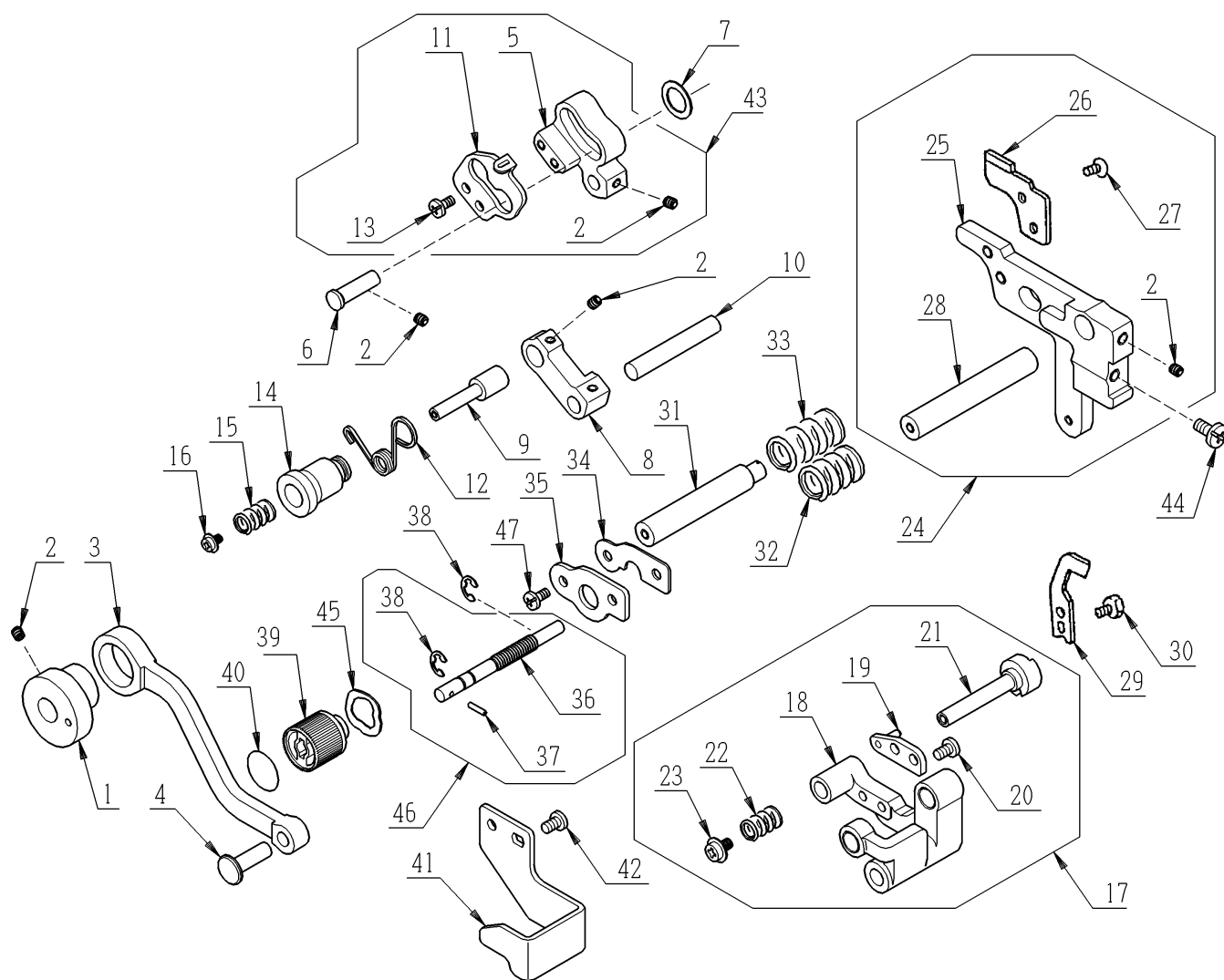




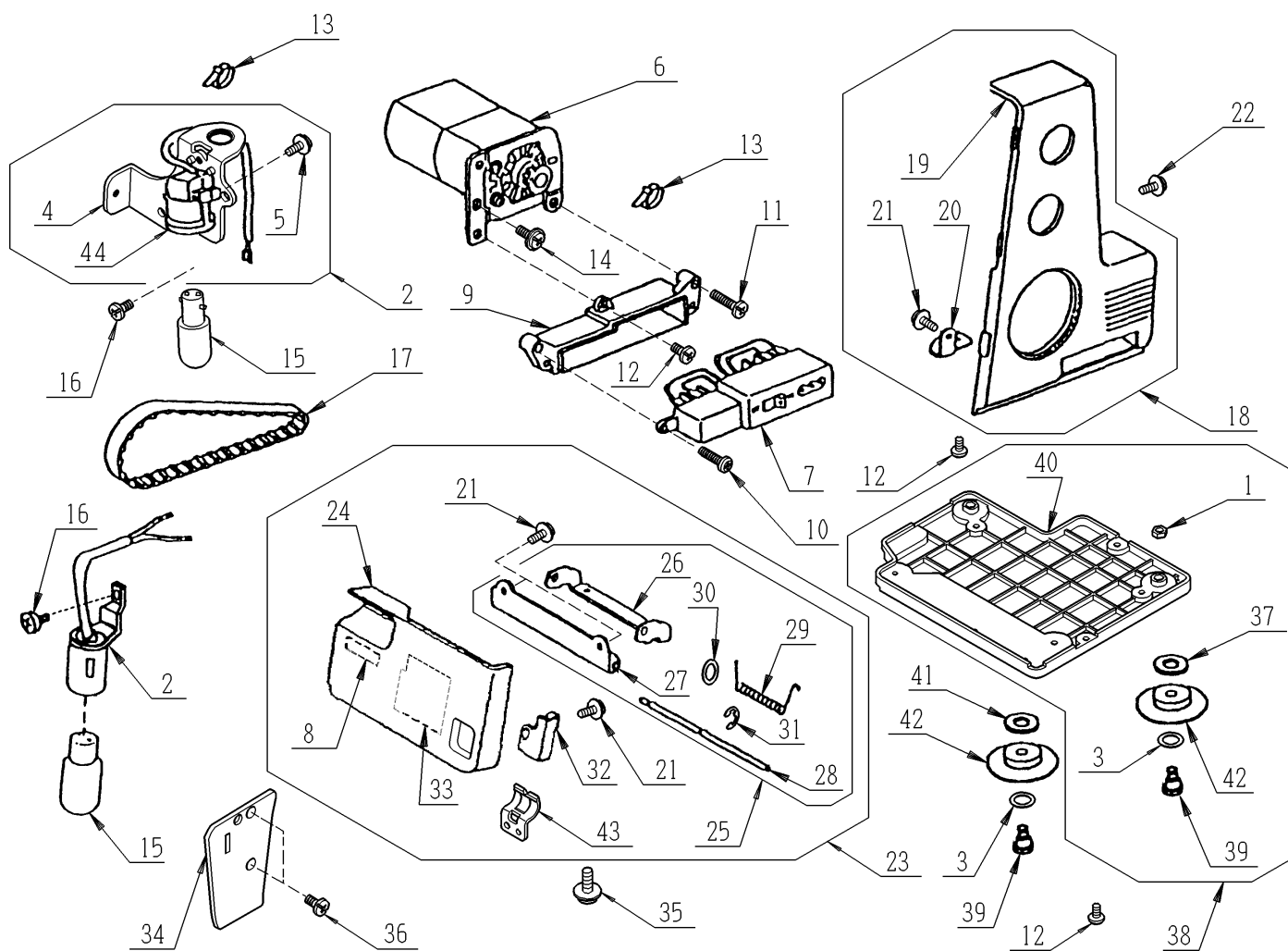
Ref. No.	Part No.	Name
1	791004007	Panel cover (2)
2	791619001	Panel cover unit for U.S.A., Canada, Australia & Great Britain
	791619012	Panel cover unit for Continental Europe
3	888261007	Sticker for U.S.A., Canada, Australia & Great Britain
	888262008	Sticker for Continental Europe
4	000149301	Set screw
5	791030105	Panel cover
6	788059007	Thread take-up level cover
7	788115002	Thread guide (L)
8	000161206	Set screw
9	788060001	Thread guide (R)
10	788105009	Panel set Plate (R1)
11	788106000	Panel set Plate (R2)
12	788107001	Needle thread guide (1)
13	788063004	Needle thread guide (2)
14	788108105	Slider
15	788065006	Slider set plate
16	788066007	Thread guide
17	788094004	Thread guide spring
18	788067008	Thread guide set plate
19	000104913	Set screw
20	788109003	Looper thread guide (2)
21	788615007	Looper thread guide unit
22	788068009	Looper thread guide
23	788069000	Sub thread tension set plate
24	788070004	Sub thread tension plate
25	788071005	Sub thread tension spring
26	788072006	Thread tension screw
27	788092002	Thread tension screw set plate
28	000101116	Set screw
29	000078319	Set screw
30	788616008	Sub thread tension holding plate unit
31	788074008	Sub thread tension holding plate
32	788075009	Thread tension connecting link (1)
33	788076000	Thread tension connecting link (2)
34	000002507	Snap ring
35	788077001	Thread tension connecting link (3)
36	788096006	Thread tension connecting link (4)
37	000002105	Snap ring
38	788073007	Thread tension release spring
39	788078002	Thread tension release Plate (1)
40	788079003	Thread tension release plate (2)
41	000101105	Set screw
42	788080007	Thread tension connecting pin
43	788081008	Spring
44	000070506	Washer
45	791031003	Threading chart
46	000081005	Set screw
47	000081016	Set screw
48	000120203	Set screw
49	000115607	Set screw



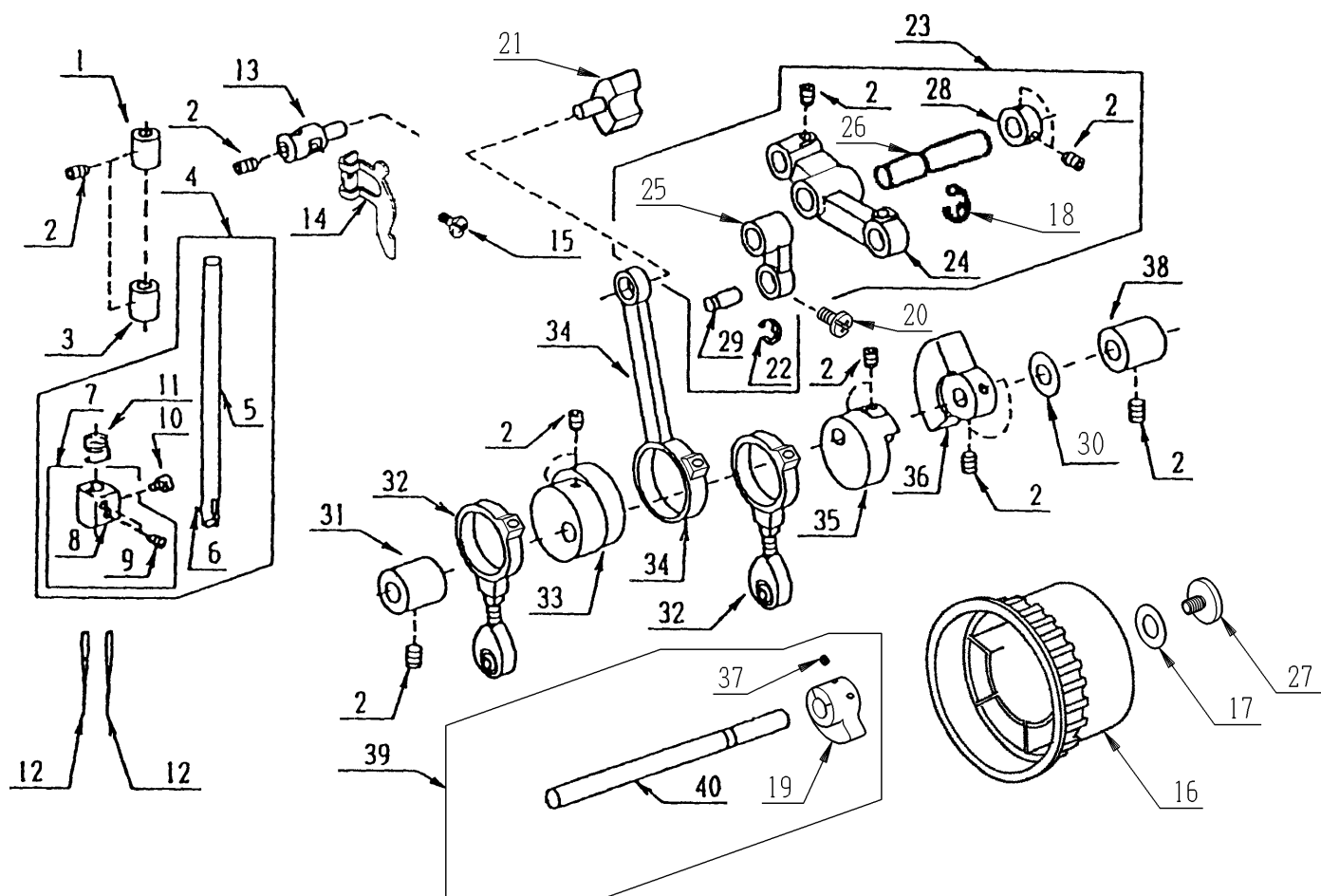
Ref. No.	Part No.	Name
1	788609008	Upper looper shaft unit
2	788039001	Upper looper shaft
3	784076019	Upper looper
4	000112501	Hexagon socket screw
5	784077009	Upper looper thread guide 3
6	000177205	Hexagon socket screw
7	788040005	Spreader base plate
8	788041006	Set screw
9	789116006	Upper looper pin
10	787619008	Upper looper shaft guide unit
11	787112006	Upper looper shaft guide
12	787113007	Bushing
13	787106007	Ring
14	000111201	Hexagon socket screw
15	787104005	Bushing
16	787105006	Upper looper crank shaft
17	787107008	Crank spacer
18	787108009	Crank set screw
19	788610208	Lower looper unit
20	785024107	Lower looper base (2)
21	784083606	Lower looper
22	000078320	Set screw
23	788042007	Rear needle guard
24	790008008	Front needle guard
25	000099006	Hexagon socket screw
26	789112002	Upper looper waving arm
27	000138008	Bolt
28	788038000	Lower looper thread guide
29	000101415	Set screw
30	790605001	Thread guide supporter unit
31	000002105	Snap ring
32	788048003	Hinge screw (2)
33	790012005	Lower looper spring
34	790011107	Looper thread guide (3)
35	788047002	Hinge screw (1)
36	790010106	Looper thread guide (2)
37	790009009	Thread guide supporter
38	820166001	Ring
39	000111304	Hexagon socket screw



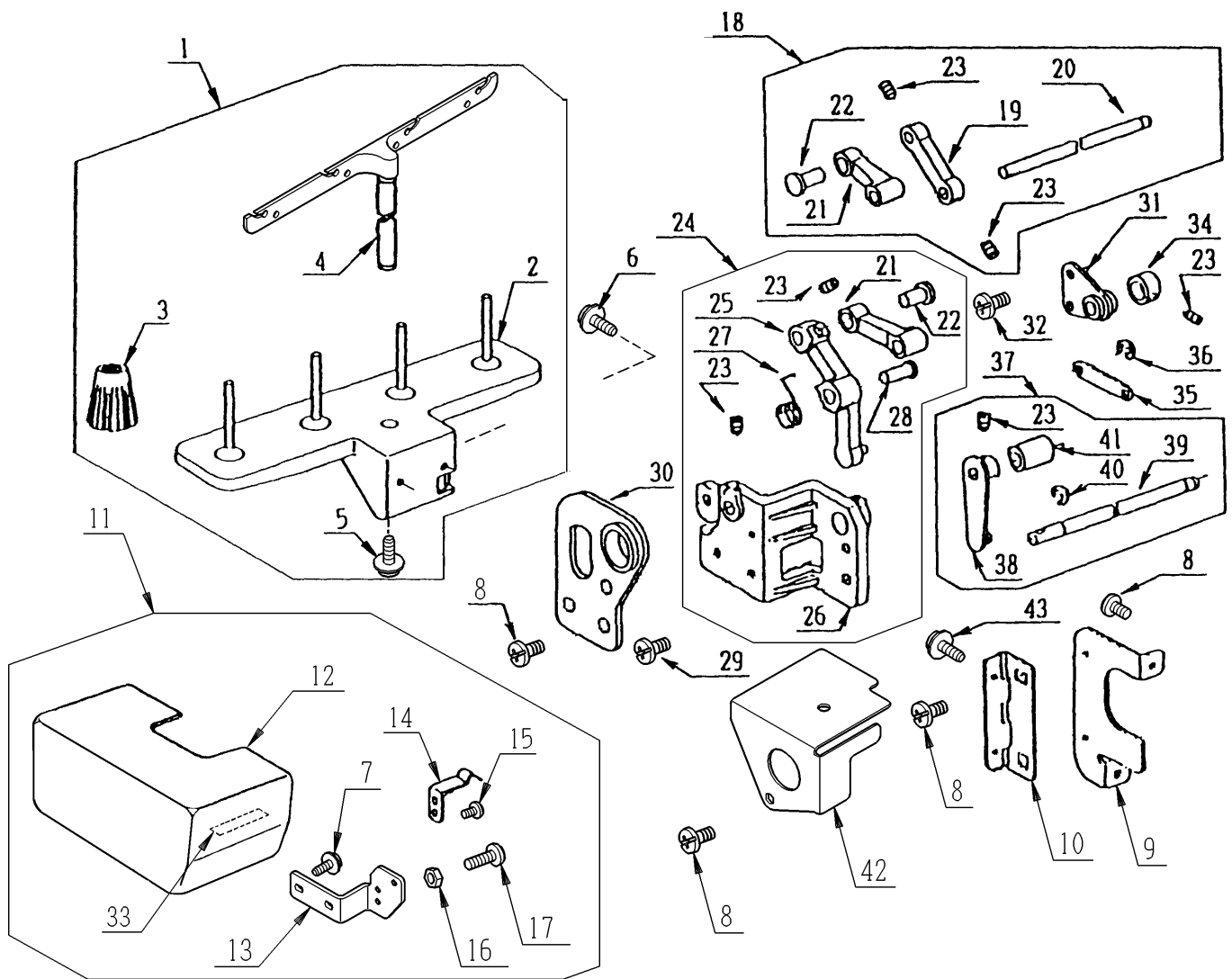
Ref. No.	Part No.	Name
1	888040008	Upper knife drive cam
2	000111201	Hexagon socket screw
3	790002002	Upper knife connecting rod
4	888100007	Pin
5	888042000	Upper knife bracket
6	888043001	Pin
7	000038502	Washer
8	888044002	Upper knife rink
9	888045003	Upper knife pin
10	888046004	Upper knife rink pin
11	888047005	Arm press plate
12	888065009	Upper knife spring
13	000081016	Set screw
14	888048006	Upper knife knob
15	888049007	Spring
16	000114709	Set screw
17	790601007	Upper knife drive arm unit
18	790003003	Upper knife drive arm
19	784041004	Upper knife guide
20	810220106	Set screw
21	888054005	Upper knife supporter
22	784043006	Spring
23	000115205	Set screw
24	790602008	Lower knife bracket unit
25	790004004	Lower knife bracket
26	788013009	Lower knife
27	000102221	Set screw
28	888058009	Upper knife shaft
29	790005005	Upper knife
30	624303008	Bolt
31	888059000	Lower knife bracket shaft
32	790022008	Spring (R)
33	888231008	Spring (L)
34	888061005	Guide plate
35	888062006	Support plate
36	790006006	Lower knife pin
37	000003508	Pin
38	000002105	Snap ring
39	888064008	Lower knife knob
40	888207005	Sticker
41	790017000	Setting plate
42	000081005	Set screw
43	888662002	Upper knife bracket unit
44	000081016	Set screw
45	000116701	Washer
46	790603009	Lower knife pin unit
47	000069605	Set screw



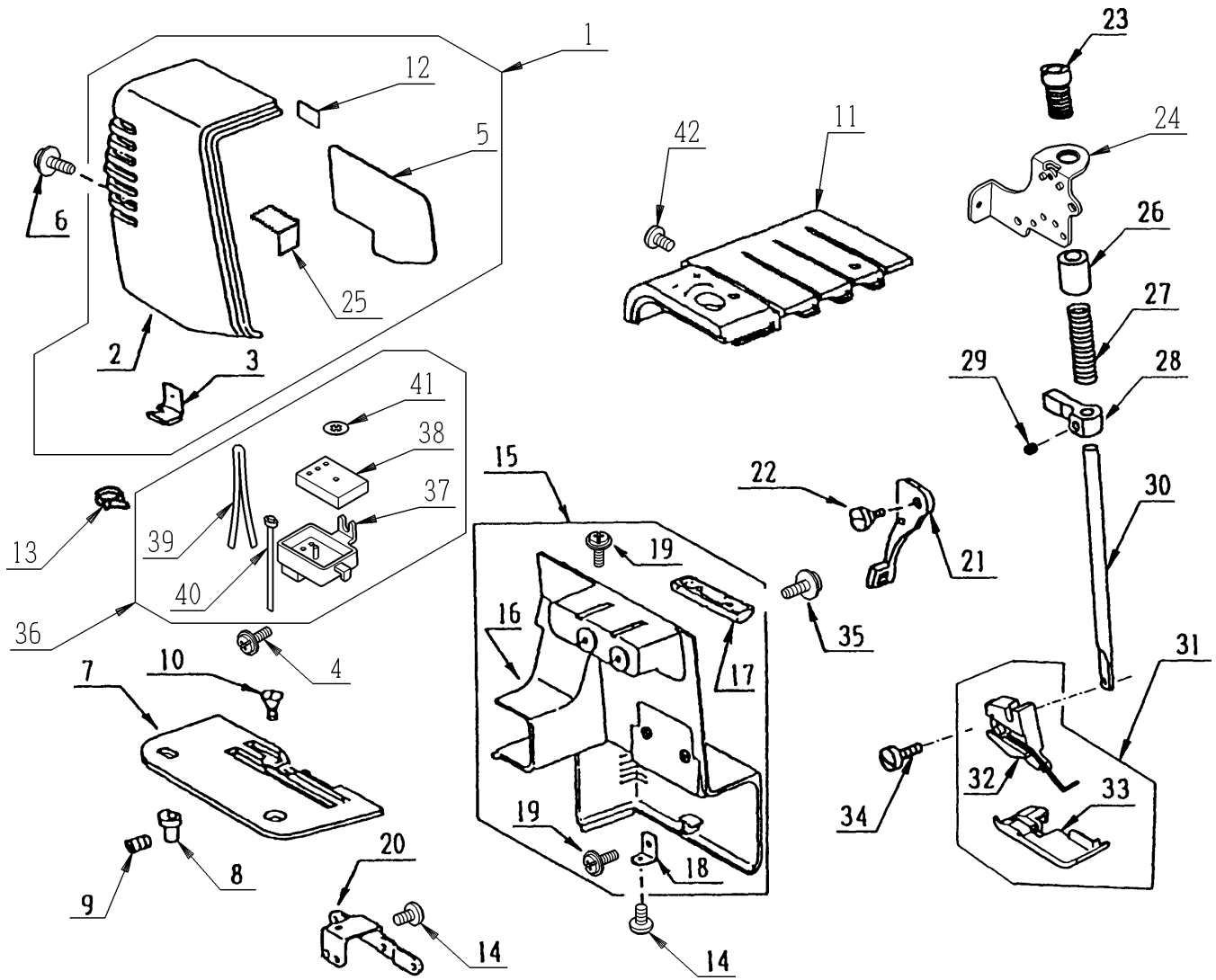
Ref. No.	Part No.	Name
1	000061205	Nut
2	791620005	Lamp socket unit for Australia, Great Britain & Continental Europe
	787633008	Lamp socket unit for Canada
	787510008	Lamp socket unit for U.S.A.
3	000070300	Washer
4	789105002	Lamp socket set plate
5	000120203	Set screw
6	M-I049A	Motor unit for U.S.A.
	M-I031A	Motor unit for Canada
	M-2093A	Motor unit for Australia & Great Britain
	M-2042A	Motor unit for Continental Europe
7	777502006	Machine socket unit for 220-240V
	777504008	Plug socket unit for 120V
8	100045000	Caution sticker for Canada
	830312016	Caution sticker for U.S.A.
9	784128028	Plug connecting receptacle cover
10	000121905	Set screw
11	000104108	Set screw
12	000081005	Set screw
13	000053008	Binder
14	000115504	Set screw
15	000009009	Lamp 240V, 15W, BA15D for 220-240V area
	000009803	Lamp 120V, 15W for 110-120V area
16	000101404	Set screw
17	784124002	Timing belt
18	787660004	Belt cover unit
19	787310109	Belt cover
20	787158004	Belt cover set plate
21	000149301	Set screw
22	000115618	Set screw
23	791603323	Looper cover unit for U.S.A.
	791603345	Looper cover unit for Canada
	791603334	Looper cover unit for Australia, Great Britain & Continental Europe
24	791005226	Looper cover
25	787626101	Looper cover hinge unit
26	787151007	Looper cover supporter
27	788117004	Looper cover hinge
28	784121010	Looper cover shaft
29	784122000	Looper cover spring
30	000071013	Washer
31	000002105	Snap ring
32	787304007	Looper cover stopper
33	789028000	Sticker
34	790016009	Looper cover guide
35	000115205	Set screw
36	000078320	Set screw
37	787204006	Washer (2)
38	789610005	Base plate unit
39	784169009	Hinge screw
40	789025007	Base plate
41	785260004	Washer
42	784135006	Rubber cushion
43	790014007	Holder
44	655681434	Lamp socket unit



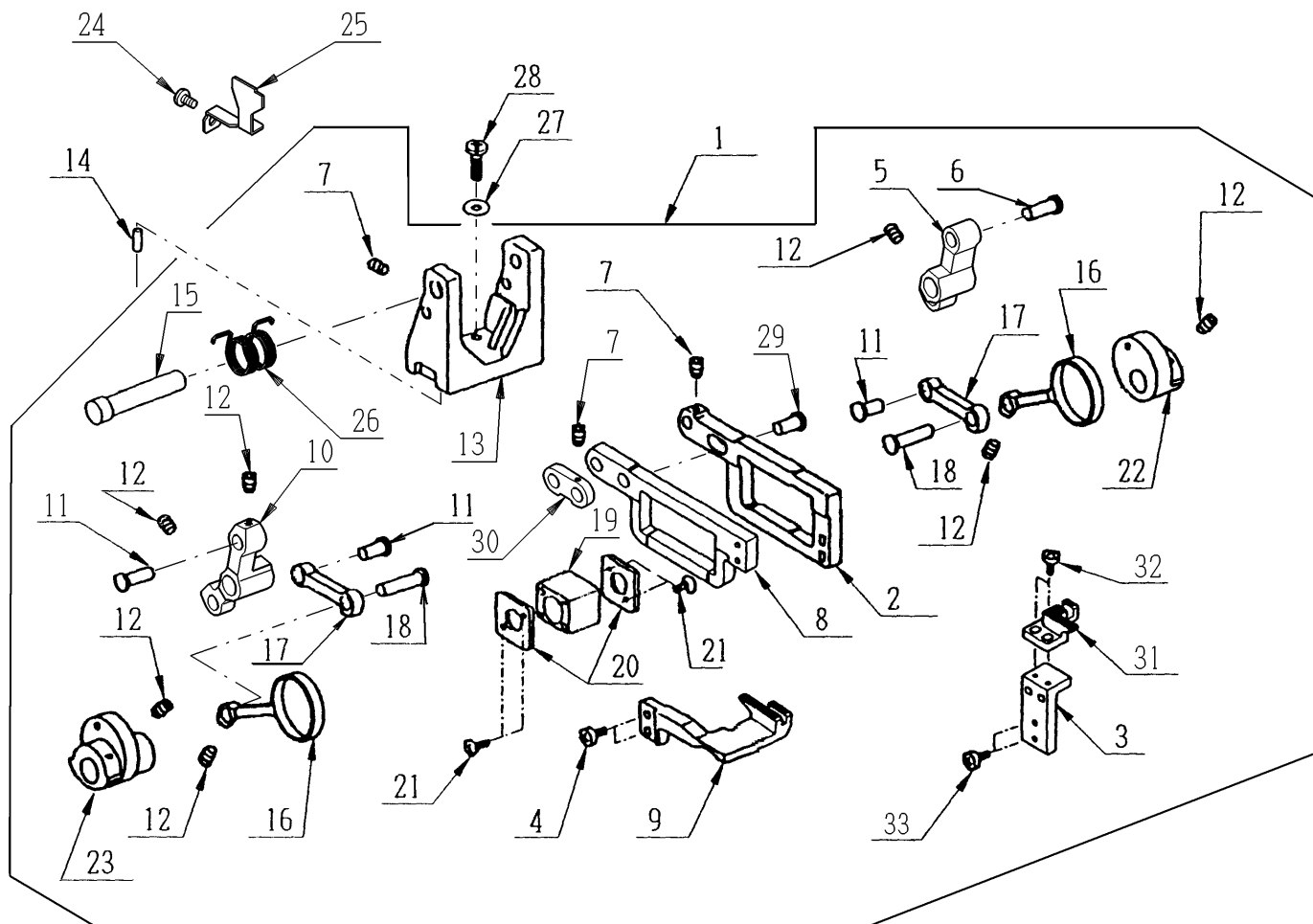
Ref. No.	Part No.	Name
1	784027004	Needle bar upper bushing
2	000111201	Hexagon socket screw
3	784028005	Needle bar lower bushing
4	787606002	Needle bar unit
5	787015008	Needle bar
6	000022307	Spring pin
7	785557001	Needle clamp screw unit
8	785004020	Needle clamp
9	785008024	Needle clamp screw
10	785026017	Needle clamp set screw
11	785009003	Needle bar thread guide
12	784157015	Needle, size 14
13	784024001	Needle bar bracket
14	788004007	Take-up lever
15	000078319	Set screw
16	784019302	Hand wheel
17	556047007	Washer
18	000002909	Snap ring
19	789101008	Balance weight
20	000101703	Set screw
21	789103000	Needle bar balancer
22	000001609	Snap ring
23	789612007	Needle bar crank unit
24	789104001	Needle bar crank
25	789007003	Needle bar link
26	789008004	Needle bar crank shaft
27	618070004	Screw
28	624245001	Ring
29	784022009	Link pin
30	000038605	Washer
31	789002008	Bushing
32	784602102	Looper cam ring unit
33	787007100	Needle bar cam
34	789004000	Needle bar crank rod
35	787004107	Upper looper cam
36	888012001	Balance weight
37	000111304	Hexagon socket screw
38	789003009	Bushing
39	789611006	Main shaft unit
40	789001007	Main shaft



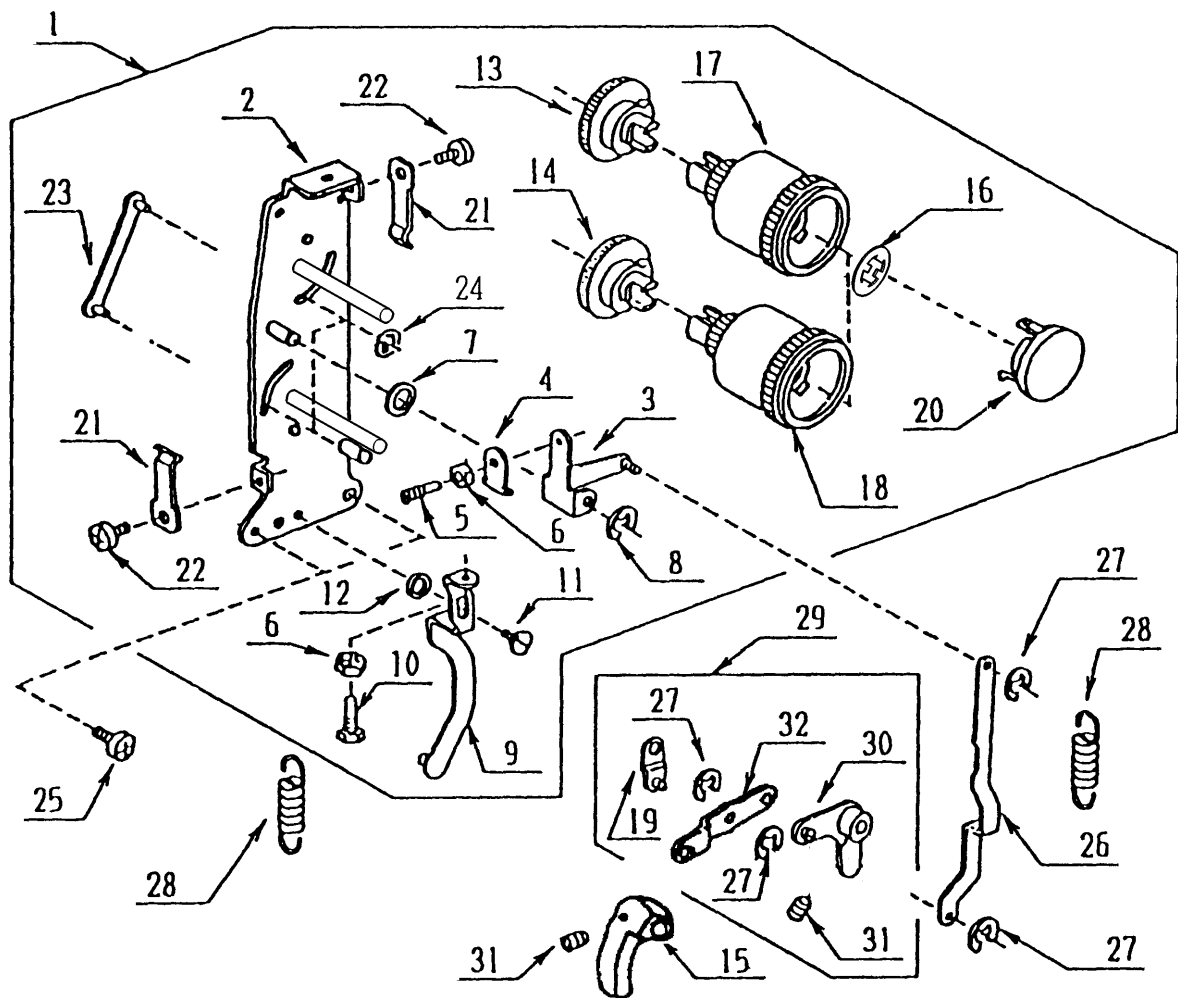
Ref. No.	Part No.	Name
1	789606008	Spool stand unit
2	777011003	Spool stand
3	784223105	Spool holder
4	789607009	Thread guide bar unit
5	000115700	Set screw
6	000114802	Set screw
7	000149301	Set screw
8	000081005	Set screw
9	787165004	Side cover hinge base
10	787507002	Side cover hinge unit
11	790608107	Side cover unit for U.S.A.
	790608200	Side cover unit for Canada
	790608303	Side cover unit for Australia, Great Britain & Continental Europe
12	790018001	Side cover
13	790019002	Side cover spring base
14	787163002	Side cover spring
15	000103808	Set screw
16	000160009	Adjustable unit
17	000104902	Set screw
18	787637002	Main feed connecting arm 2 unit
19	787197005	Main feed connecting arm 2
20	787198006	Main feed connecting shaft
21	787067005	Feed link
22	787195003	Feed connecting pin
23	000111201	Hexagon socket screw
24	787656007	Feed adjusting base unit
25	787194002	Sub feed connecting arm 3
26	787074005	Feed adjusting base
27	787301004	Connecting arm spring
28	787076007	Connecting arm pin
29	000103509	Set screw
30	787354002	Main shaft set plate (C)
31	787077008	Connecting arm support
32	810220003	Set screw
33	100045000	Caution sticker for Canada
	830312016	Caution sticker for U.S.A.
34	650136009	Ring
35	787081005	Feed connecting arm link
36	000002105	Snap ring
37	787655109	Sub feed connecting arm B unit
38	787193001	Sub feed connecting arm 2
39	787270003	Sub feed connecting shaft B
40	000001609	Snap ring
41	625144002	Feed shaft front bushing
42	789030005	Feed bar cover
43	000115618	Set screw



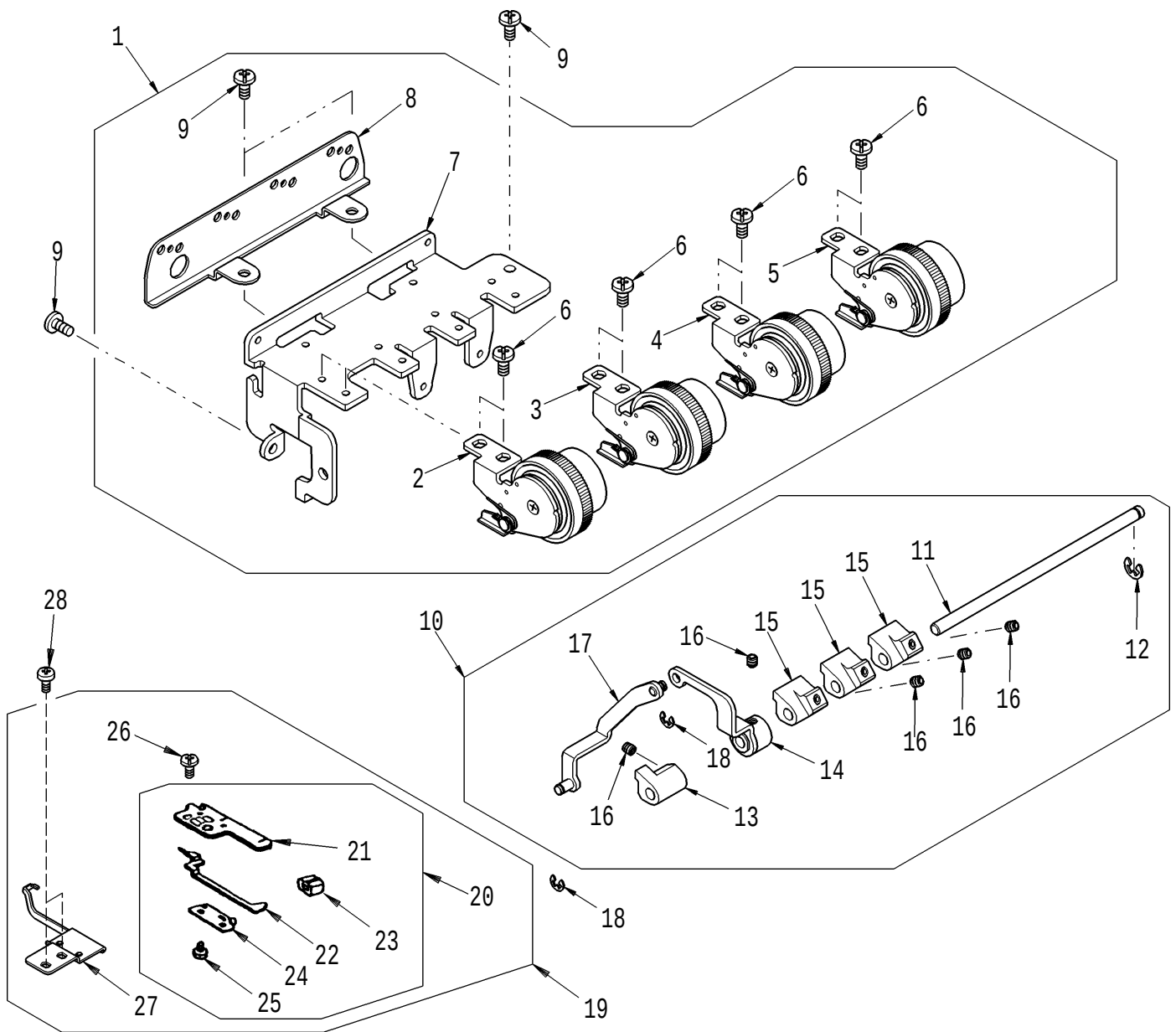
Ref. No.	Part No.	Name
1	791601000	Face plate unit
	791601103	Face plate unit for Canada, Great Britain & Continental Europe
2	791007000	Face plate
3	840602006	Thread cutter unit
4	000115607	Set screw
5	787031000	Sticker
6	000115700	Set screw
7	788601000	Needle plate unit
8	789100007	Eccentric pin
9	000111902	Hexagon socket screw
10	681009101	Plain head screw
11	788113206	Top cover
12	100411104	Sticker
13	000053101	Binder
14	000081005	Set screw
15	787648109	Rear cover unit
16	787293208	Rear cover
17	787173005	Finger base plate
18	787174006	Rear cover set plate
19	000149301	Set screw
20	787294106	Rear cover set plate
21	650032015	Presser bar lifter
22	810431009	Hinge screw
23	777013005	Presser adjusting screw
24	789105002	Set plate
25	787382009	Sticker
26	777002001	Bushing
27	787020006	Presser bar spring
28	789117007	Presser bar bracket
29	000111304	Hexagon socket screw
30	787019002	Presser bar
31	788501009	Presser foot
32	787541008	Foot holder unit
33	788502000	Presser foot (lower) unit
34	763048005	Set screw
35	000115618	Set screw
36	789602004	Oil case unit
37	789005001	Oil case
38	789006002	Felt
39	763033307	Strings
40	763033204	Strings
41	000014007	Snap ring
42	000081016	Set screw



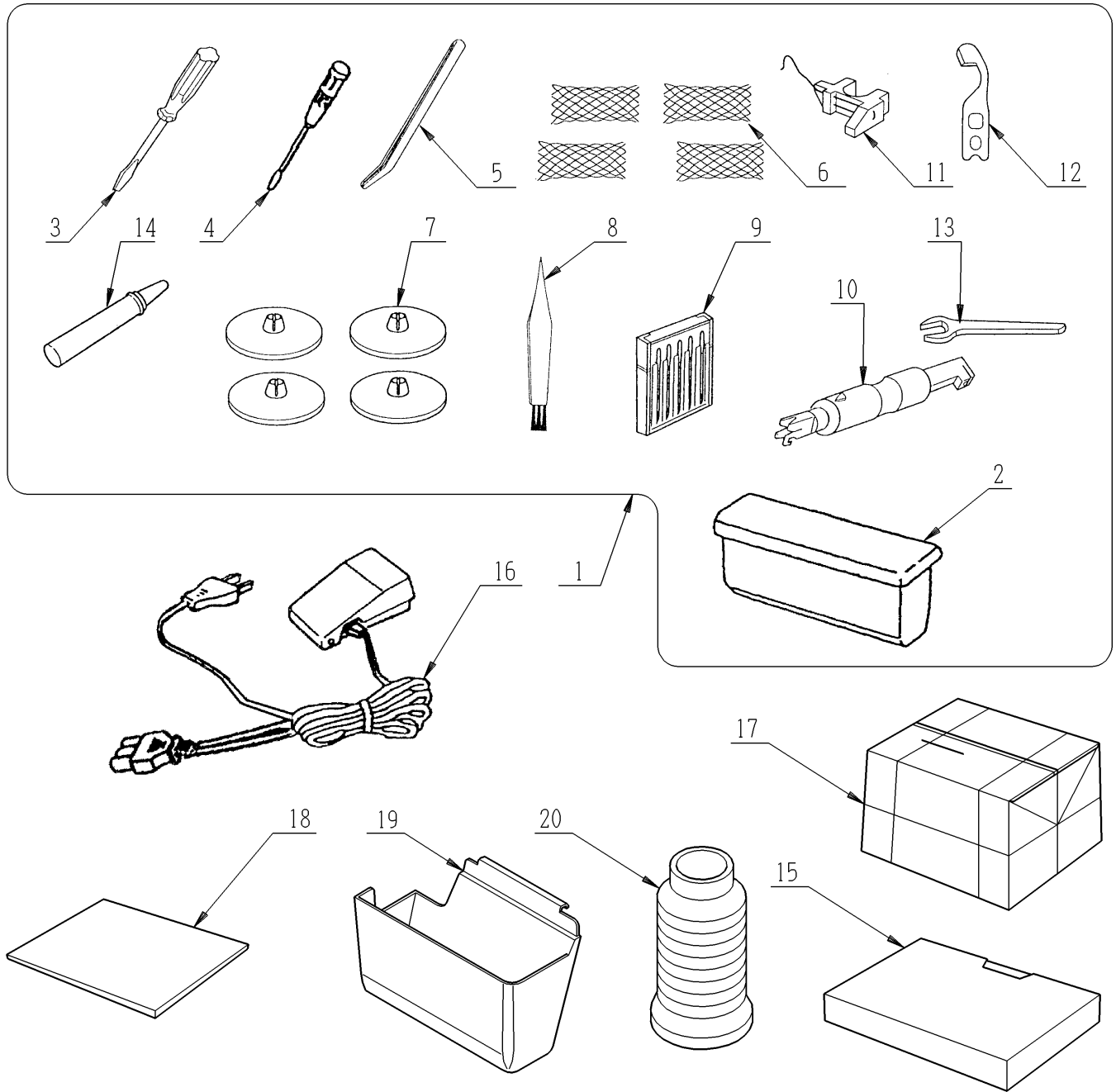
Ref. No.	Part No.	Name
1	789604006	Feed bar unit
2	788022001	Main feed bar
3	788023002	Main feed dog bracket
4	000104201	Set screw
5	787054009	Main feed bar drive arm
6	789013002	Pin
7	000111902	Hexagon socket screw
8	789011000	Sub feed bar
9	789018007	Sub feed dog
10	789010009	Sub feed drive arm
11	787059004	Pin
12	000111201	Hexagon socket screw
13	787305101	Feed bar bracket
14	000122803	Pin
15	787306009	Feed bar pin
16	787065003	Feed bar link
17	787066004	Feed rocking link
18	787068006	Pin
19	789016005	Block
20	787071002	Set plate
21	787189004	Set screw
22	787072003	Main feed drive cam
23	787073004	Sub feed drive cam
24	000101404	Set screw
25	789019008	Set plate
26	789015004	Drive arm spring
27	000070506	Washer
28	000101817	Set screw
29	888100007	Pin
30	789012001	Sub feed link
31	788027006	Main feed dog
32	000066705	Set screw
33	000068811	Set screw



Ref. No.	Part No.	Name
1	791618011	Feed adjuster unit
2	789031006	Set plate
3	787089003	Feed adjuster arm
4	785156006	Set plate
5	652056000	Adjustable screw
6	000160102	Adjustable nut
7	000036500	Washer
8	000001609	Snap ring
9	787264004	Differential rod
10	785224006	Adjustable screw
11	785286006	Hinge screw
12	785222004	Set plate
13	787091008	S. length Adjusting cam
14	788036008	Differential feed Adjusting cam
15	788032004	Sub feed connecting arm
16	000013800	Snap ring
17	787261702	S. length dial
18	787261126	Differential feed dial
19	788031003	Differential feed transfer arm
20	787262301	Dial cap
21	787263003	Spring
22	000081119	Set screw
23	788037009	Link
24	000014306	Snap ring
25	000081005	Set screw
26	787102003	Feed rod
27	000002105	Snap ring
28	787259006	Spring
29	788607006	Main feed connecting arm unit
30	788029008	Main feed connecting arm
31	000111201	Hexagon socket screw
32	788030002	Feed connecting plate

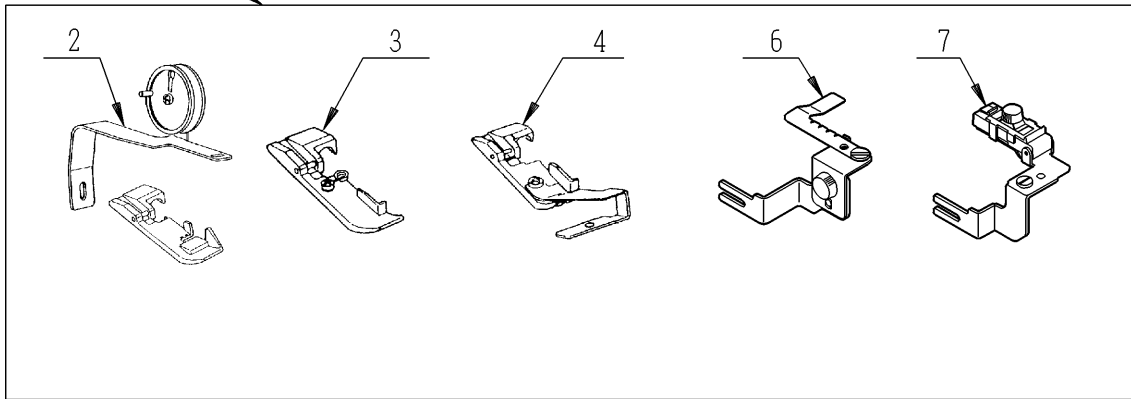


Ref. No.	Part No.	Name
1	788612004	Thread tension set plate unit
2	788503001	Needle thread tension (L) unit
3	788504002	Needle thread tension (R) unit
4	788505003	Looper thread tension (U) unit
5	788506004	Looper thread tension (L) unit
6	000081005	Set screw
7	788049004	Thread tension set plate
8	787129006	Thread guide
9	000101404	Set screw
10	788613005	Thread tension release shaft unit
11	788054002	Thread tension release shaft
12	000002507	Snap ring
13	788056004	Cam ring
14	788055003	Thread tension release lever
15	788095005	Cam ring (2)
16	000111201	Hexagon socket screw
17	788089005	Thread releasing lever
18	000002105	Snap ring
19	789613008	Chaining finger bracket unit
20	788605004	Chaining finger unit
21	789106003	Chaining finger set plate
22	788017003	Chaining finger
23	787041003	Needle plate setting knob
24	788018004	Chaining finger spring
25	000074603	Set screw
26	000078320	Set screw
27	790007007	Fixed needle guard
28	000107101	Set screw

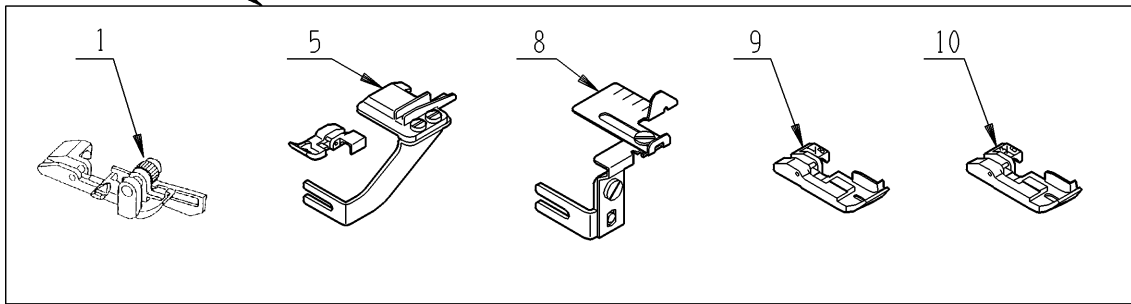


Ref. No.	Part No.	Name
1	791828005	Accessory unit
2	787805003	Accessory box
3	784810002	Screw driver (large)
4	647803004	Screw driver (small)
5	624801001	Tweezers
6	624806006	Net
7	822020503	Spool cap
8	802424004	Lint brush
9	784860100	Needle set
10	200254502	Needle threader
11	788618000	Spreader
12	790005005	Upper knife
13	784809008	Spanner (wrench)
14	741814003	Oil
15	791831001	Video (PAL) English
16	791830000	Video (NTSC) English
	C-1028	Speed control for U.S.A. & Canada
	C-2030	Speed control for Australia
	C-2048	Speed control for Great Britain
	C-2038-1	Speed control for Continental Europe
17	785808000	Cover
18	791829006	Instruction book (English, French & Spanish)
19	791006227	Waste chip box
20	777812002	Thread size 60, 200m

A



B



11



Ref. No.	Part No.	Name
A	200234104	Attachment set A
B	200235105	Attachment set B
1	200203104	Blind stitch foot
2	200204208	Taping foot with tape reel
3	200207108	Cording foot (1)
4	200208109	Cording foot (2)
5	200214108	Beading attachment
6	200217101	Gathering attachment
7	200218102	Elastic gathering attachment
8	200216100	Cloth guide
9	20021910	1/8" Piping foot
10	200220107	3/16" Piping foot
11	200248101	Gathering foot