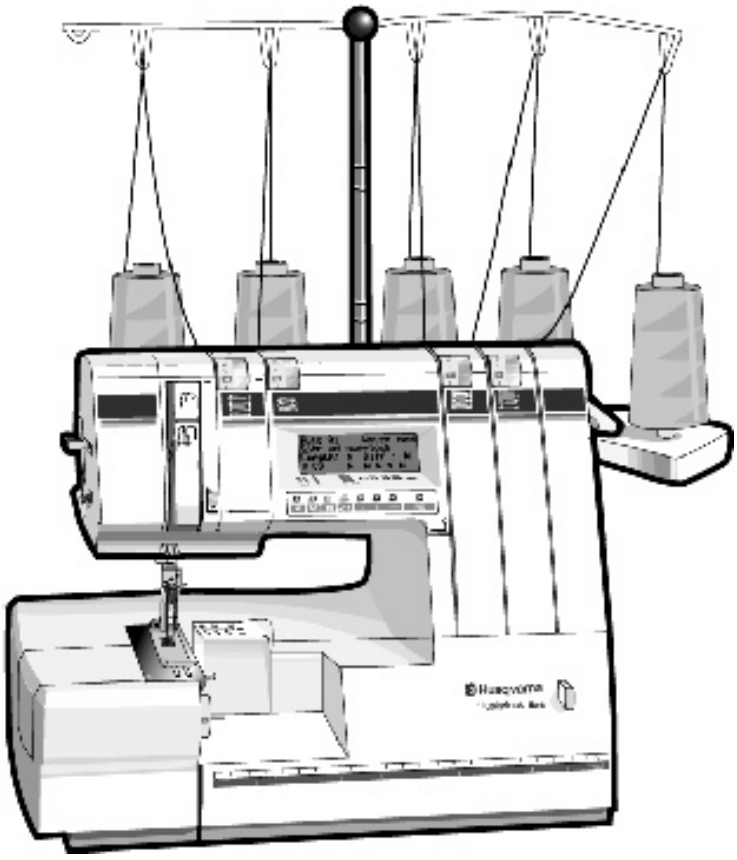
Husqvarna VIKING

SERVICE MANUAL



HUSKYLOCK
MODEL 936

Made in Sweden
May 2005

104 72 49-26 (Rev D)
(replaces 104 72 44-26)

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DIRECTIONS FOR USE

These service instructions are intended to be used by service workshop personnel, or by salesmen who carry out servicing their own districts. They assume a thorough knowledge of the handling of precision appliances and accessibility to service tools.
The manual is divided into two sections and covers all service operations and checks which should be carried out when making a complete overhaul of a overlock machine.

Before carry out any setting always make sure that the machine is not connected to mains.

SPECIFICATION

Type of sewing	5-thread overlock sewing with 5 needles
Needles	130/705H # 75 - 90
Stitch length	Maximum: 5,0 mm Minimum: 0.8 mm
Cutting width	~ 7.0 mm
Presser foot lifter	Lever type
Motor	Built-in the body
Sewing speed	1300 ± 80

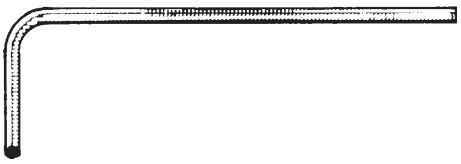
SERVICE TOOLS

1 .Gauge
Ref. No 2150009-215

2. Distance gauge
Ref. No 412 38 85-01

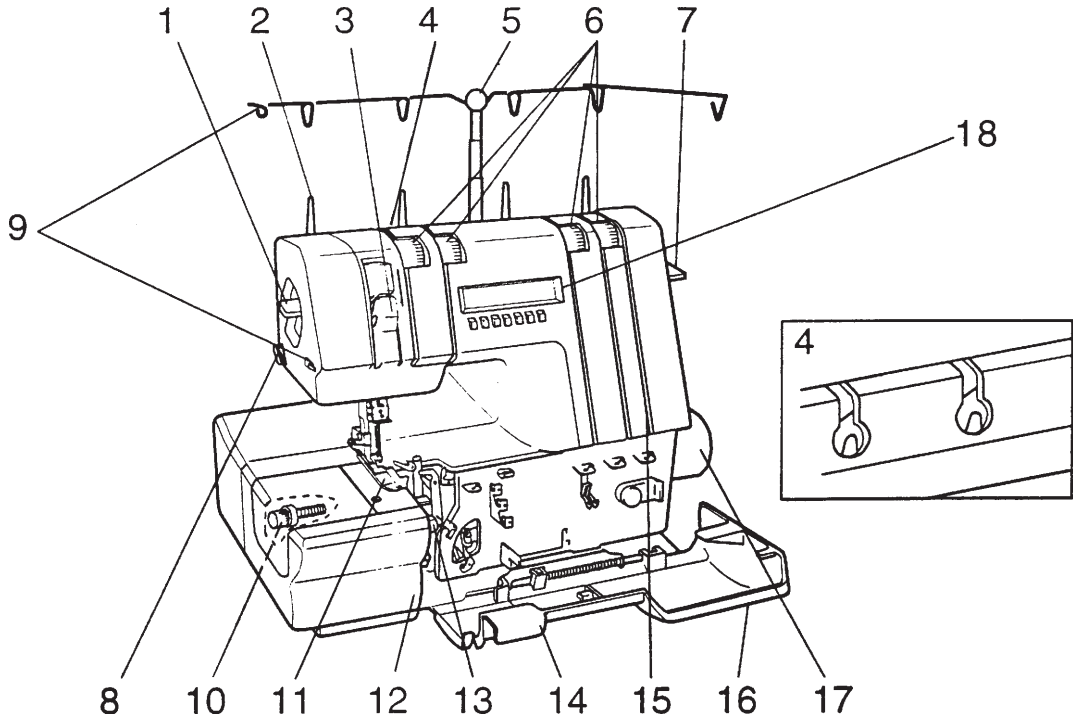
3. Allen key 2.5 mm
Ref. No 411 86 01-01

4.Allen Key 2 mm
Ref. No 411 86 00-01

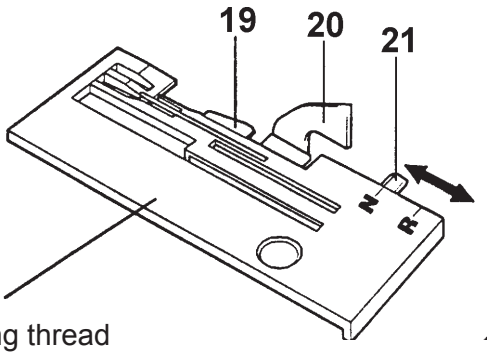


5.Allen Key 1,5 mm
Ref. No 411 66 89-01

MACHINE PARTS



Model 936



1. Pressure adjustment lever
2. Spool pin
3. Thread take-up lever cover
4. Thread guides
5. Telescopic thread stand
6. Thread tension dials
7. Presser foot lift lever
8. Thread cutter
9. Thread holders for decirative thread /cording thread
10. Upper cutter knob
11. Presser foot
12 Sewing surface, flat bed cover
13. Cutting width / stich width adjusting dial
14. Cutter cover
15. Front panel
16. Front cover
17. Handwheel
18. Sewing advisior liquid crystal display (LCD)
19. Stitch finger
20. Upper cutter
21. Stitch finger lever
22. Stitch plate

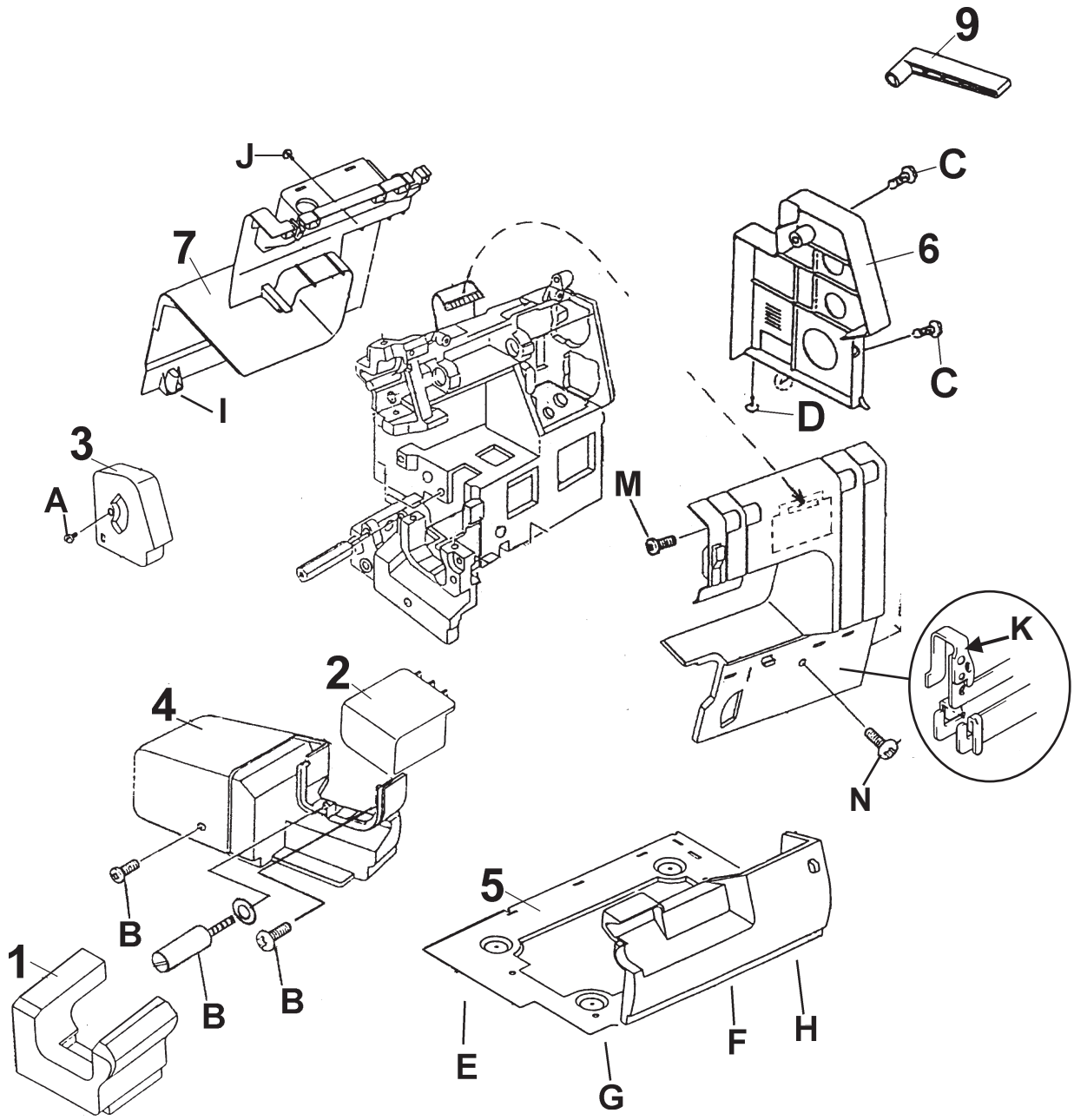
GENERAL DISMOUNTING

To carry out all the recommended settings in this service manual the following parts should be dismounted first.

1. Remove support bed (1) and free arm (2).
2. Dismount upper side cover (3) by removing the screw (A) .
3. Dismount lower side cover (4) by removing the three screws (B) .
4. Remove screws (D, E,F,G,H and I) then open front cover, and remove the base plate (5) towards left side.
5. Remove presser foot lifter (9).
6. Remove the two screws (C) and dismount the motor cover (6).
7. Dismount the rear cover (7) by removing screw (J).
8. Remove thread take up (K).
9. Remove screws (M,N) and dismount the front cover.

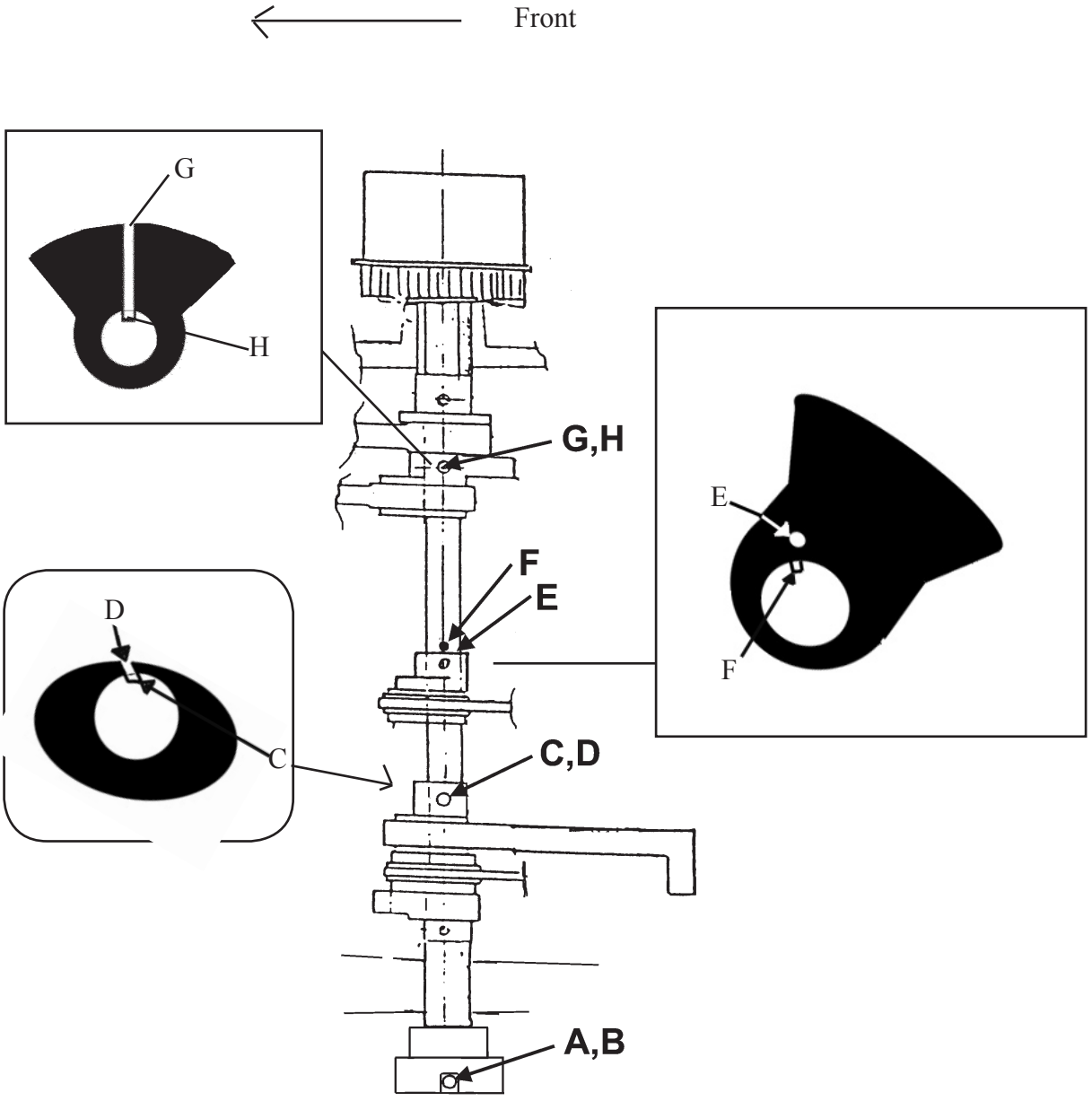
NOTE ! Set the needle in its lowest position.

10. Remove the cable from the circuit board on the front cover.
11. Mounting in reverse order.



BASIC SETTING FOR CAMS

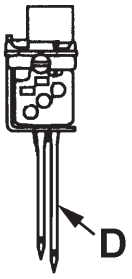
A,B = Chain stitch loopers calibration mark.
C = First cams first calibration mark.
D = First cams second calibration mark.
E = Second cams first calibration mark.
F = Second cams second calibration mark.
G = Third cams first calibration mark.
H = Third cams second calibration mark.



1. NEEDLE HEIGHT

CHECK

When the needle is in it's highest position the distance between the right needle (D) and the surface of the stitch plate shall be 10 ± 0.1 mm

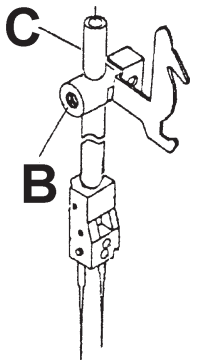


ADJUSTMENT

1. Move needle by turning the handwheel so it comes to it's highest position.

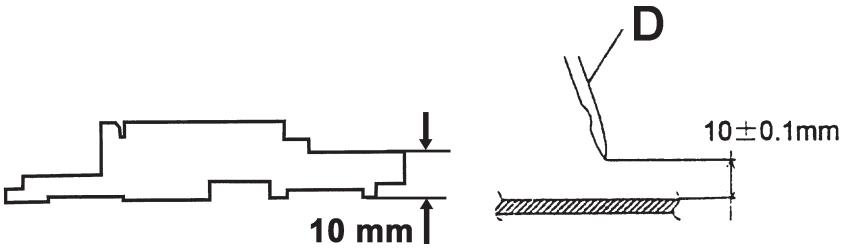
2. Loosen screw (B) holding the needle bar. Move needle bar until the distance between the right needle (D) and the surface of the stitch plate is 10 ± 0.1 mm.

3.Tighten screw.



C = Needle bar
D = Right Needle -D

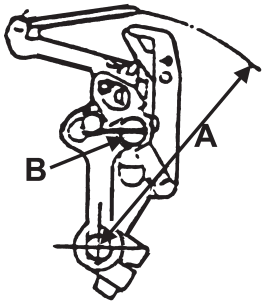
ATTENTION! If needle bar is twisted,
clearance between lower looper and needles may differ.



2. HEIGHT OF LOWER LOOPER

Check

The distance (A) should be 68.5 ± 0.2mm



Adjustment

Loosen screw (B) and adjust the height of the looper.

3. CLEARANCE BETWEEN LOWER LOOPER AND NEEDLES

CHECK

When point of lower looper is behind the needle, the clearance between needle and lower looper should be 0 - 0.03 mm.

ADJUSTMENT

1. Then set point of lower looper behind centre line of the needle by turning the handwheel towards you.

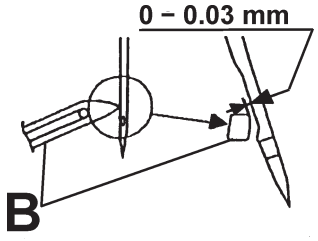
2. Loosen screw (A) on the lower looper and adjust clearance between needle and point of looper by moving the lower looper until it is 0 - 0.03 mm.

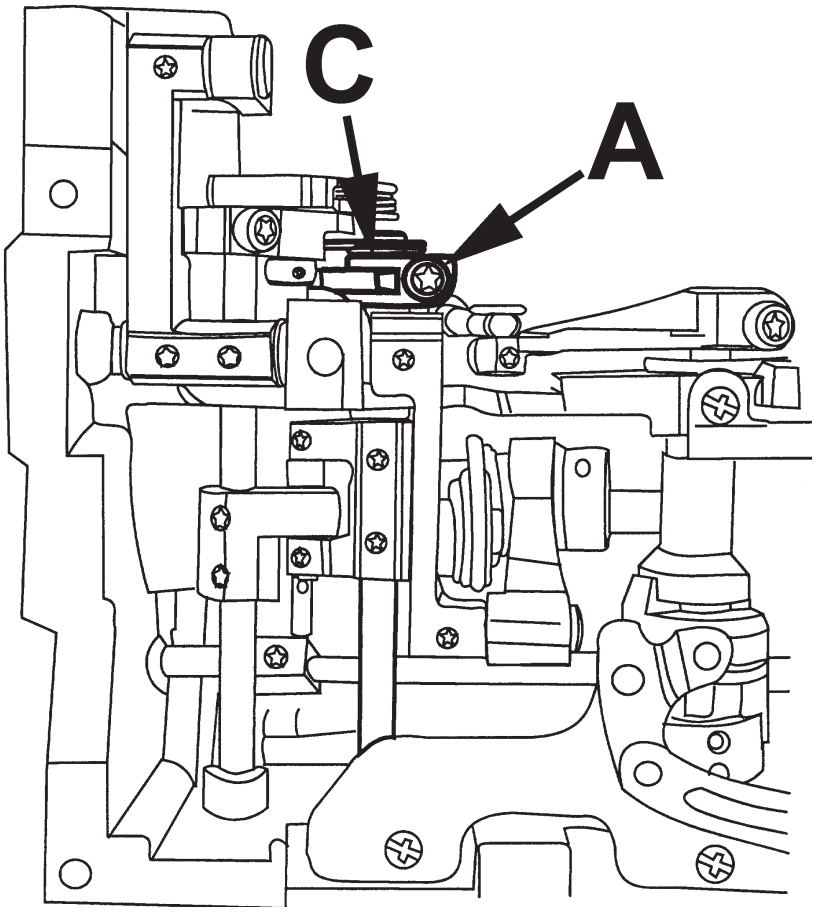
3. Tighten screw.

B = Lower looper

C= Lower looper stand

Note! If The Needle guard setting
ATTENTION! If needle bar is twisted, clearance between lower looper and needles may differ.





4. END POSITION OF LOWER LOOPER - SETTING OF THE LOWER LOOPER IN RELATION TO THE NEEDLE

CHECK

When lower looper is positioned at it's left end turning position, the clearance between its point and left side of left needle should be 3.0 ± 0.2 mm.

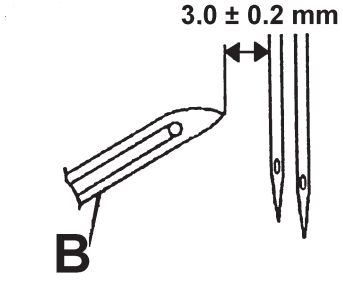
ADJUSTMENT

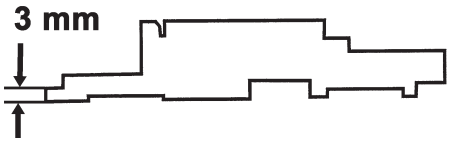
1. Move lower looper to its left end position by turning the handwheel towards you.

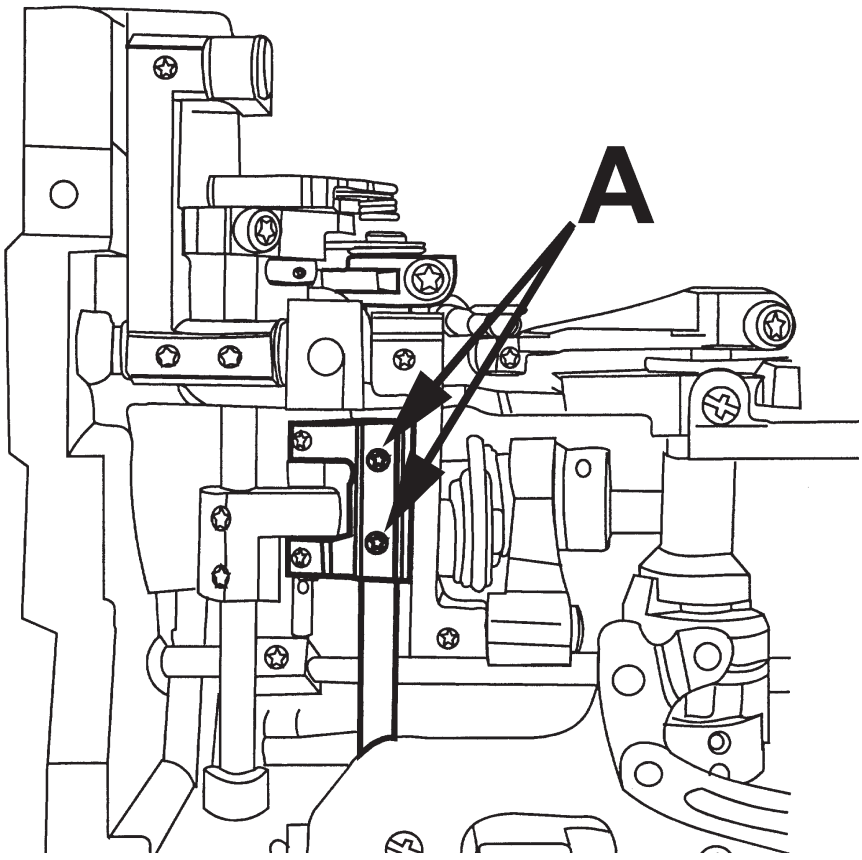
2. Loosen screws of the lever (A) of the lower looper. Adjust distance between left side of the needle and the piont of the lower looper to 3.0 ± 0.2 mm.

3. Tighten screws.

B = Lower looper







5. CLEARANCE BETWEEN NEEDLES SUPPORT AND NEEDLE - NEEDLES (C) AND (D)

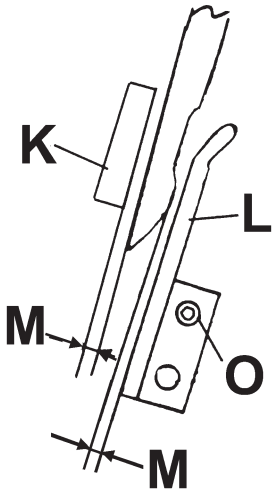
CHECK

When needle is in its lower turning position, the right hand needle should not touch the needle support (K,L) at any point.
Valid for Schmetz #80.

ADJUSTMENT

1.Loosen screws (O) of the needle support and turn it until its clearance (M) to the needle is between 0-0.10 mm.
2. Tighten screw (O).

K= Front needle support.
L= Rear needle support.



6. POSITION OF UPPER LOOPER CLUTCH EXCHANGE BODY

Check

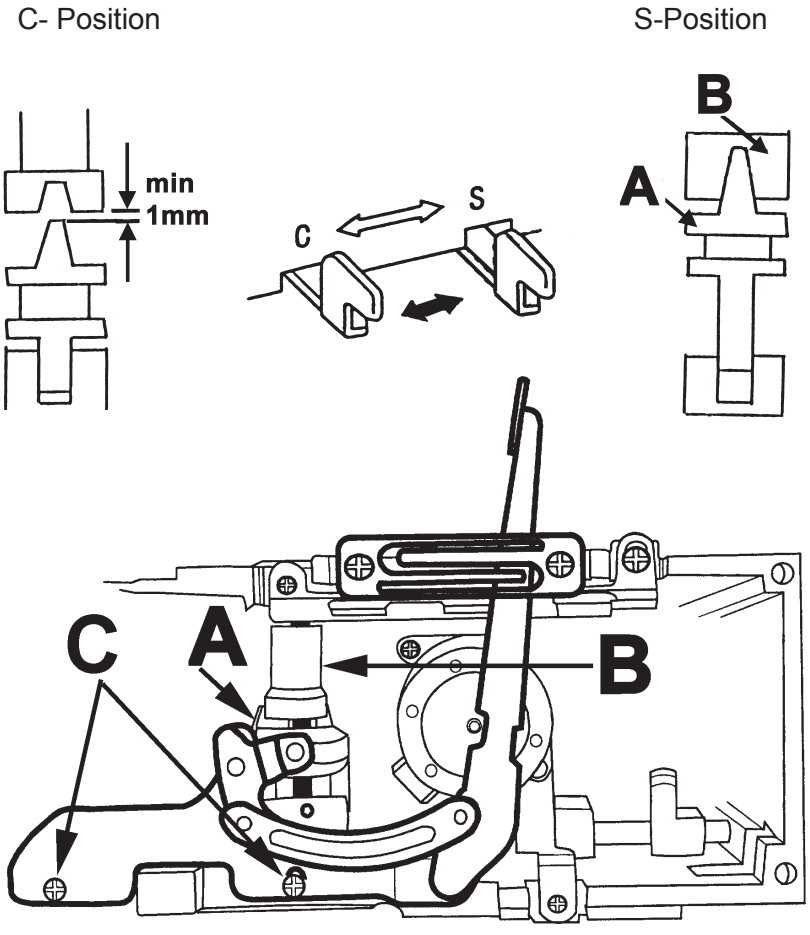
When the looper clutch is at the S-Position (on) position there should not be any distance or play between exchange body (A) and looper link (B).

When the looper clutch is at the C-position (off) position the distance should be at least 1mm between the exchange body (A) and looper link (B).

Adjustment

1.Put the looper clutch in the S-position.

2. Loosen the 2 screw's (C) and move the clutch assemblyuntil there is no play between exchange body (A) and looper link (B) and tighten the screws (C).



7.SETTING OF UPPER LOOPER POSTION

CHECK

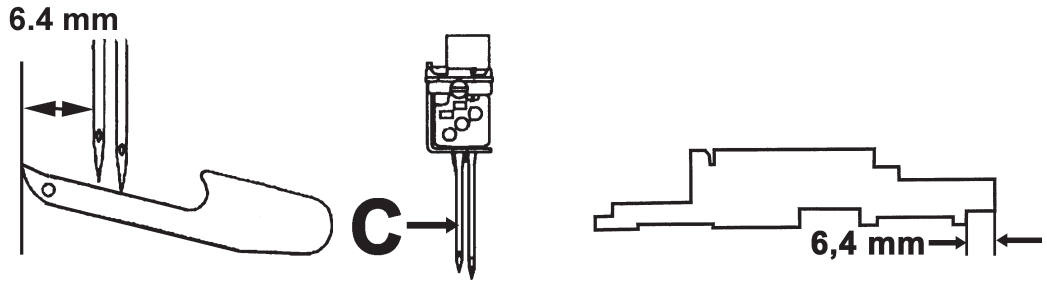
When upper looper is set at its highest position the clearance between the point of the the upper looper and the left side of the (C) needle should be 6.4 mm.

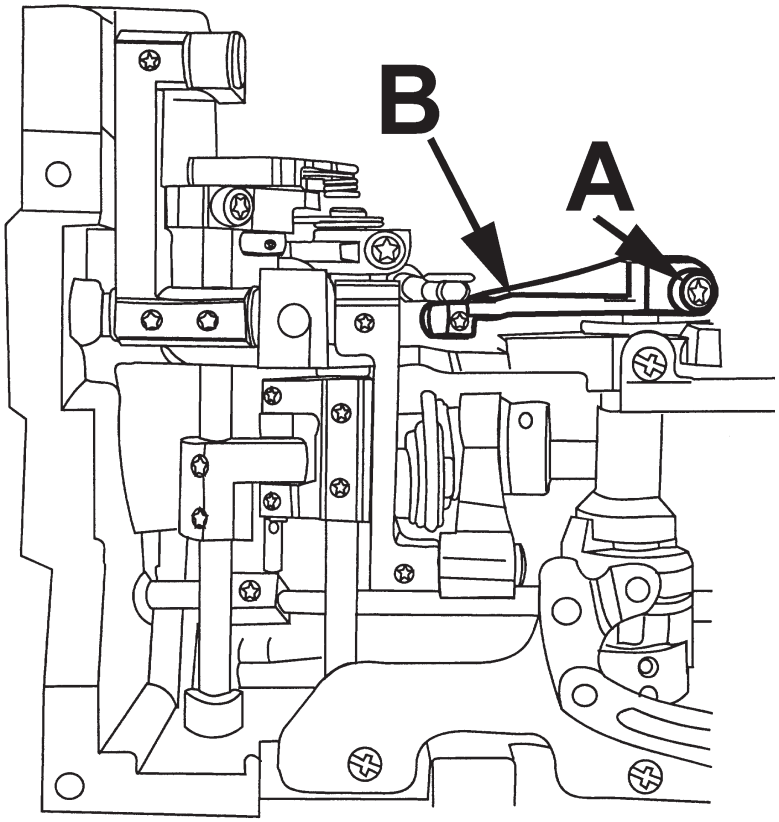
ADJUSTMENT

1.Move upper looper to its highest position by turning the handwheel towards you.

2.Loosen screw (A) of the link arm of the upper looper lever (B) and adjust the looper so that the clearance between the point of the the upper looper and the left side of the (C) needle is 6.4 mm.

3.Tighten screw (A).





8. TIMING OF UPPER LOOPER AND LOWER LOOPER

CHECK

When point of upper looper (A) is aligned with back of upper end of lower looper, the clearance between the point of the upper looper and the hole of the lower looper should be 3.8 mm.

ADJUSTMENT

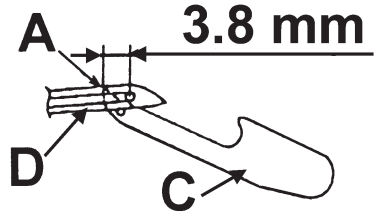
1.Align the point of the upper looper with back of upper end of the lower looper by turning the handwheel towards you.

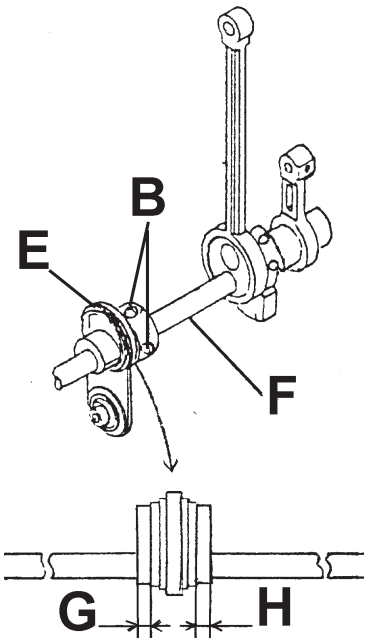
2.Loosen cam the screws (B) on the driver cam (E) and adjust the position of the upper looper so that the clearance between the point of the upper looper and the surface of the lower looper is 3.8 mm.

3.Tighten the screws (B).

N.B. That (G) is equal to the distance (H).

C= Upper looper
D= Lower looper
F= Lower shaft





9. CLEARANCE BETWEEN UPPER LOOPER AND LOWER LOOPER

CHECK

The clearance between upper looper and lower looper should be 0 - 0.10 mm. See ill.

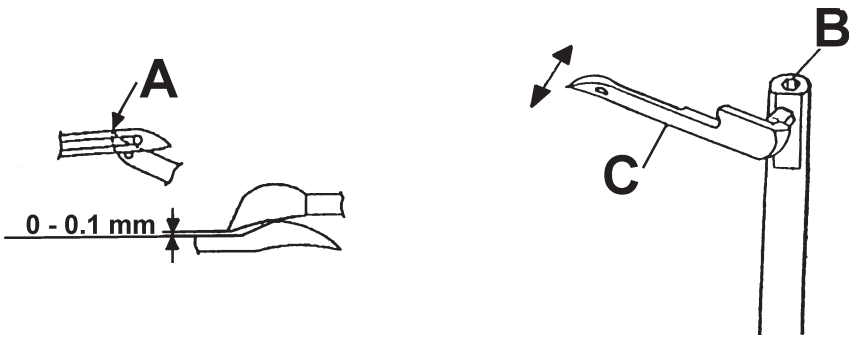
ADJUSTMENT

1. Align point of upper looper (A) with back of upper end of lower looper by turning the hand wheel towards you.

2. Loosen fixing screw (B) of the upper looper and adjust the clearance between upper looper and lower looper. (0 - 0.10 mm).

3. Tighten screw (B).

C = Upper looper



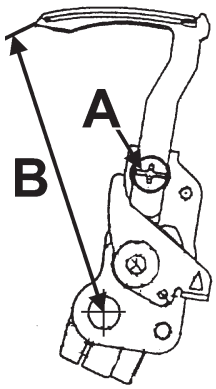
10. HEIGHT OF CHAIN STITCH LOOPER

Check

The distance B should be 64.5 ± 0,4mm

Adjustment

Loosen screw (A) and adjust the height of the looper.



11. CLEARENCE BETWEEN DOUBLE CHAIN LOOPER AND NEEDLE

Check

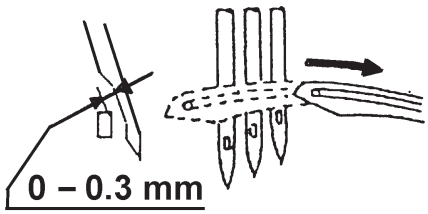
When point of the double chain looper is behind the needle, the clearance between needle and double chain looper should be 0 - 0.3 mm.

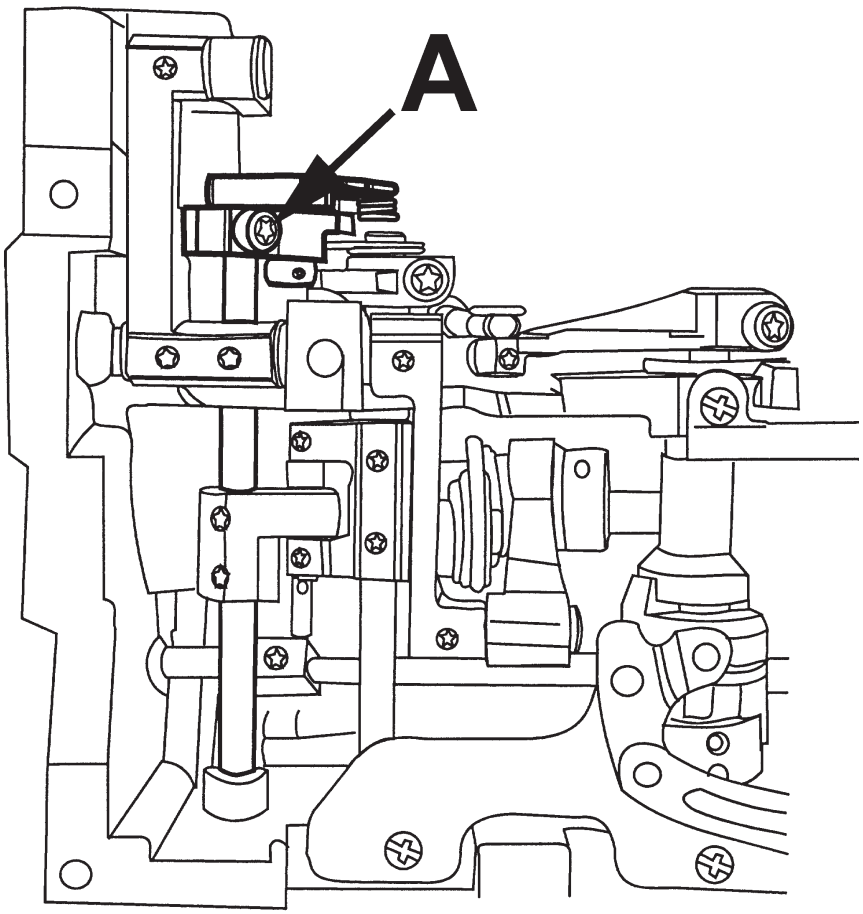
Adjustment

1. Set point of the double chain looper behind the centre line of the needle by turning the handwheel towards you.

2. Loosen screw (A) on the double chain looper and adjust clearance between needle and point of looper by moving the double chain looper until it is 0 - 0.3 mm.

3. Tighten the screw (A).





12. TIMING OF DOUBLE CHAIN LOOPER AGINST THE NEEDLE

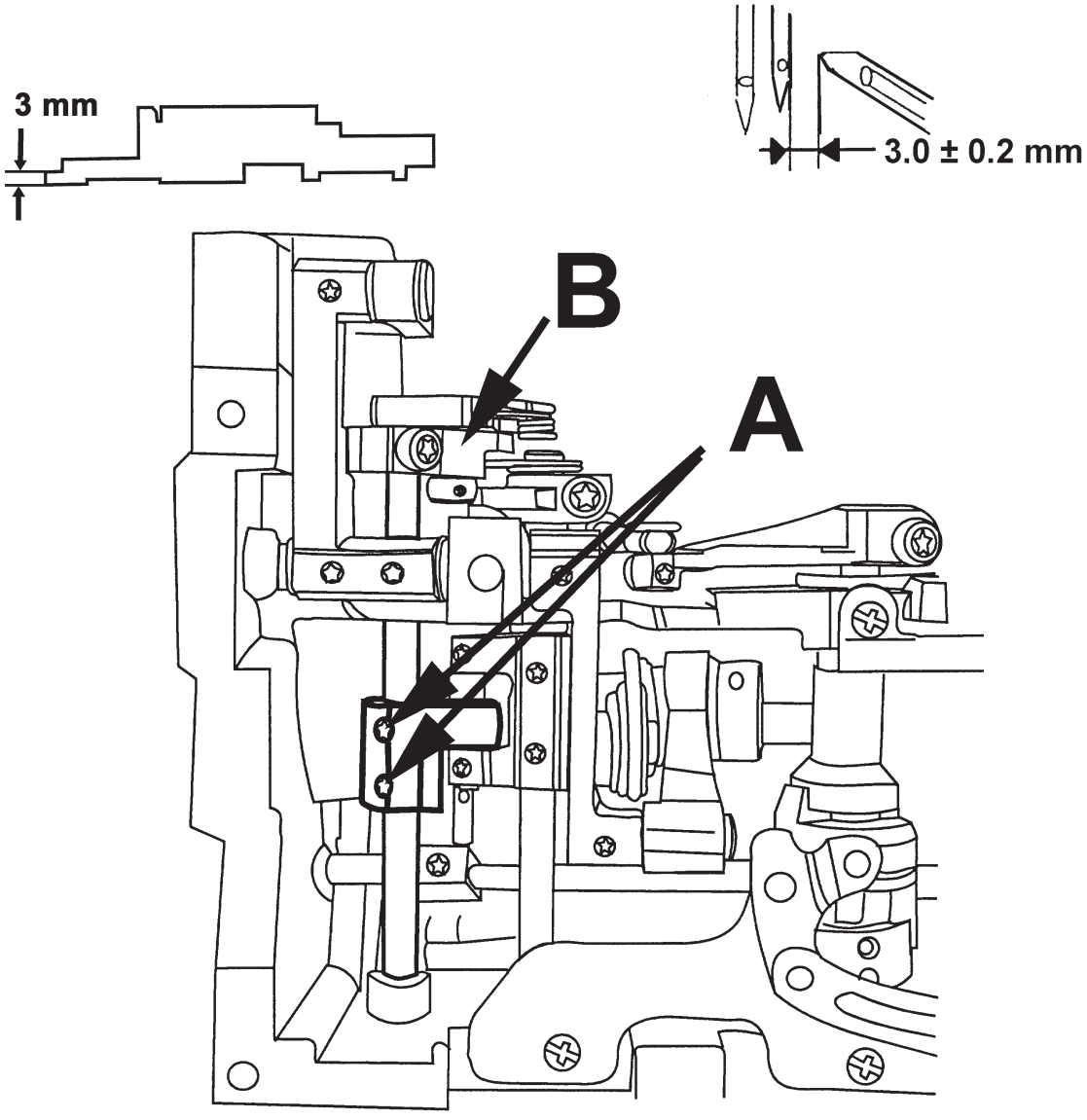
Check
When double chain looper is positioned at end of right side, the clearance between the needles right side to the tip of the double chain looper should be 3.0 ± 0.2 mm.

ADJUSTMENT

1. Move the double chain looper to its right end position by turning the handwheel towards you.

2. Loosen screws (A) on the lever of the double chain looper. Adjust distance between right side of the needle and the tip of the double chain looper to 3.0 ± 0.2 mm.

3. Tighten screws (A).



13. CLEARANCE BETWEEN NEEDLES SUPPORT AND NEEDLE - NEEDLES (A),(B) AND (E)

CHECK

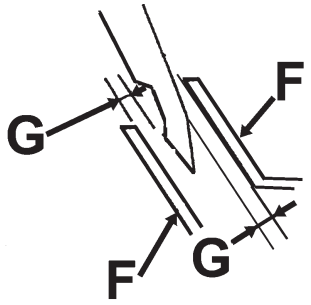
When needle is in its lower turning position the needle shall not at any point touch the rear needle support (F) .

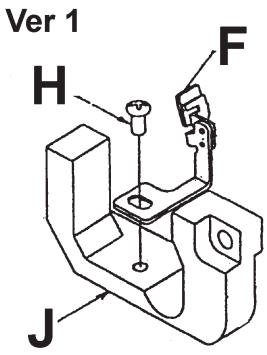
Valid for Schmetz #90.

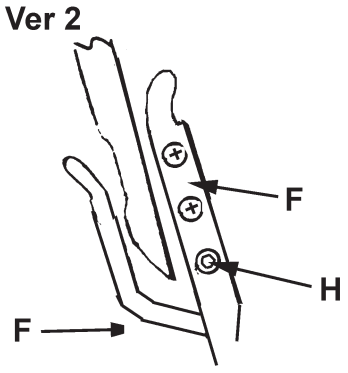
ADJUSTMENT

1. Loosen screw (H) of the needle support
2. Adjust the needle support until the clearance to the needle is G = 0.05-0.1 mm
3. Tighten screw (H).

F = Needle support
J = Frame
Note! On Ver 2 the Needle support is located on the Chain stitch looper







14. CLEARANCE BETWEEN FEED DOG AND STITCH PLATE - SIDEWAYS

CHECK

The feed dogs shall not at any point touch the stitch plate.

ADJUSTMENT- Rear feed dog

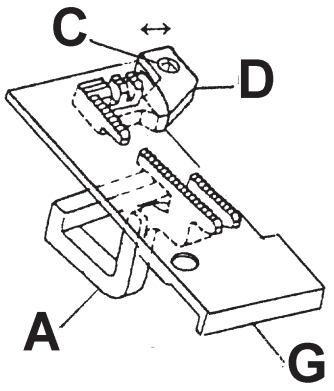
1. Loosen screw (C).

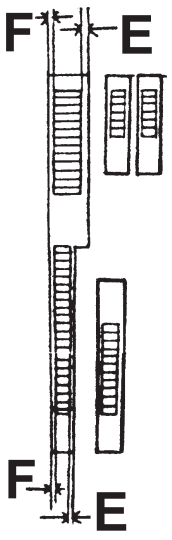
2. Adjust the distance between the feed dog and the stitch plate so that (E) is be equal to the distance (F).

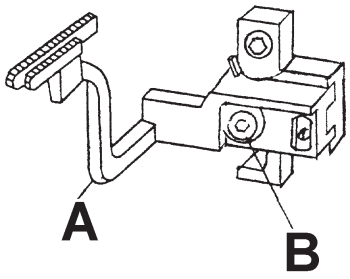
ADJUSTMENT- Differential feed dog

1. Loosen screw (B).

2. Adjust the distance between the feed dog and the stitch plate so that (E) is be equal to the distance (F).







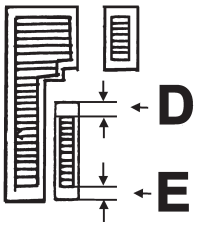
15. POSITION OF FEED DOG FRONT TO BACK

Check

When checking the position of the feed dog, connect the cable from circuit board to the front cover and set the machine to:

stitch length = 5mm
differential ratio = 2.0

The distances should be as follows:



D: 2.7 ± 0.5

E: 2.0 ± 0.5

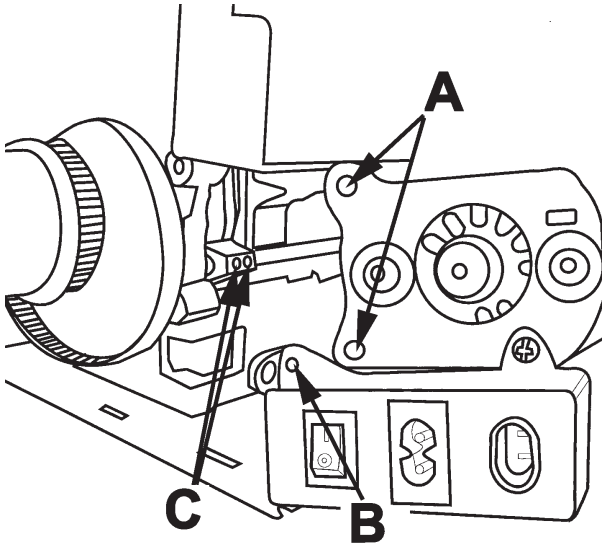
Adjustment

1. Demount the Motor and the Terminal box by removing the two screws (A) on the motor and the screw (B) on Terminal box and then fold the Motor and Terminal box away.

2. Loosen the 2 screws (C) and adjust the distance between the feed dog and stitch plate so distance D and E is correct.

3. Tighten the screws (C).

4. Mount the Motor and the Termnial Box.



16. FEED DOG HEIGHT

- **Rear feed dog**

CHECK - Rear feed dog

Height of rear feed dog above the stitch plate should be 1 ± 0.1 mm.

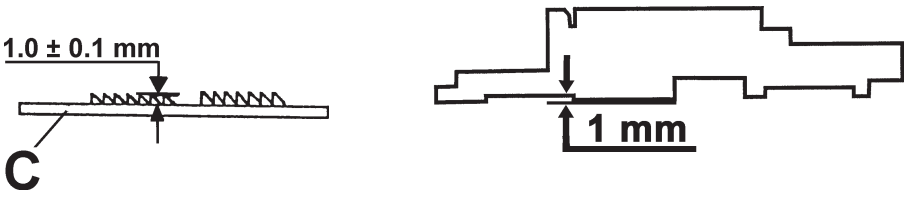
ADJUSTMENT - Rear feed dog

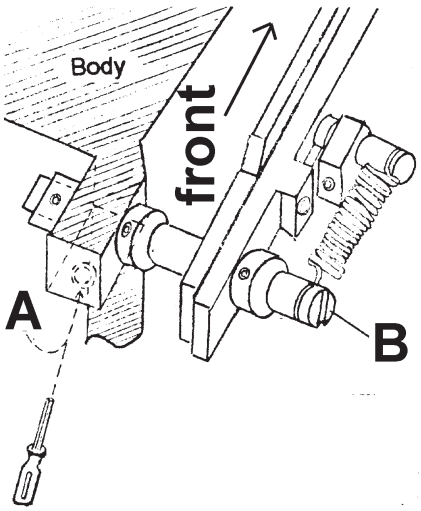
1. Move feed dog to its highest position by turning the handwheel towards you.

2. Loosen screw (A) and turn screw (B) so that the rear feed dog is 1 ± 0.1 mm above the stitch plate.

3. Tighten screw (A).

C = Stitch plate





17. DIFFERIENTIAL FEED DOG HEIGHT

- Front feed dog

CHECK - Front feed dog

Height of front feed dog above the stitch plate should be 1.2 ± 0.1 mm.

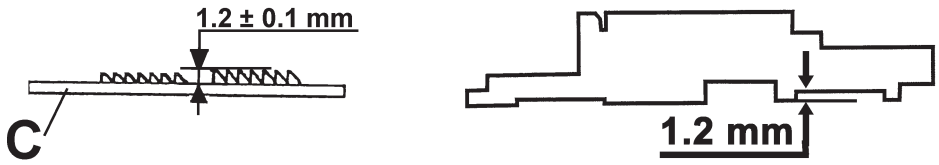
ADJUSTMENT - Front feed dog

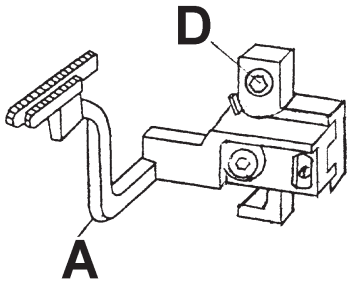
1. Move feed dog to its highest position by turning the handwheel towards you.

2. Loosen screw (D) and adjust so that the front feed dog (A) is 1.2 ± 0.1 mm above the stich plate (C).

3. Tighten screw (D).

C = Stitch plate





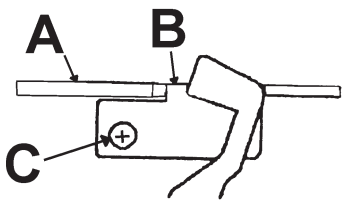
18. POSITIONS OF LOWER KNIFES

CHECK - LOWER KNIFE

1. The lower knife cutting edge (B) should be aligned with the surface of the stitch plate (A).

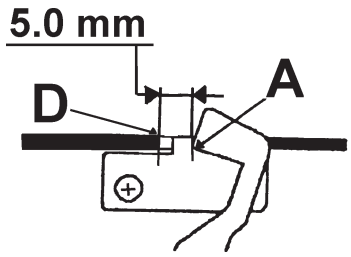
ADJUSTMENT

Loosen screw (C). Adjust so the lower knife cutting edge is aligned with the surface of the stitch plate.



19. POSITIONS OF UPPER KNIFES

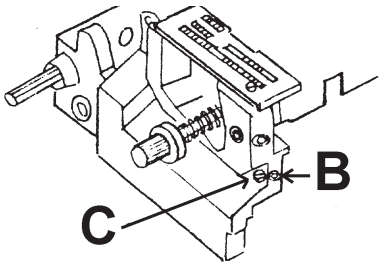
CHECK - 1. UPPER KNIFE



When upper knife is in its lowest position, its cutting edge (A) should be positioned 5.0 mm from the stitch plates knife opening (D).

ADJUSTMENT

1. By turning handwheel towards you, move upper knife to its lowest position.



2. Loosen lower knife fixing screw (B). Adjust by turning the eccentric screw (C) until the distance between the stitch plates knife opening (D) and the cutting edge of the upper knife (A) is 5.0 mm

3. Tighten screw (B).

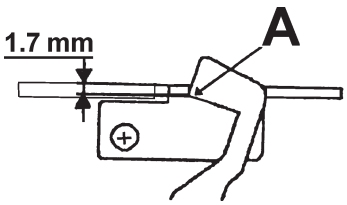
CHECK - 2. UPPER KNIFE

When upper knife is in its lowest position, its cutting edge (A) should be positioned 1.7 mm lower than the cutting edge of the lower knife.

ADJUSTMENT

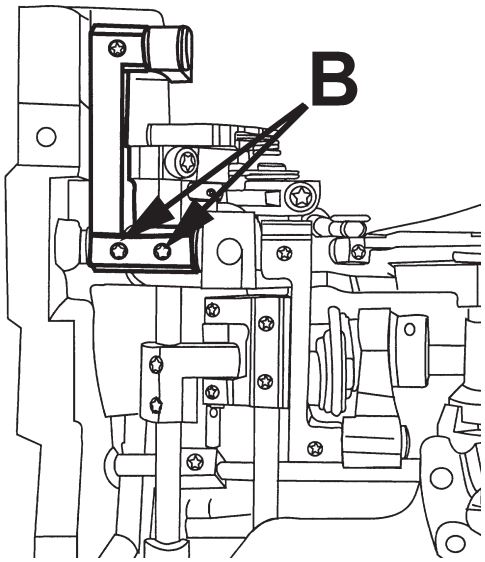
1. By turning handwheel towards you, move upper knife to its lowest position.

2. Loosen upper knife fixing screws (B).



3. Adjust position of upper knife downwards 1.7 mm from the utting edge of the lower knife.

4. Tighten the screws (B).



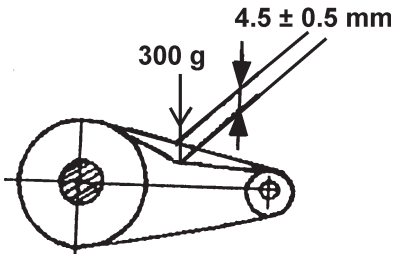
20. BELT TENSION

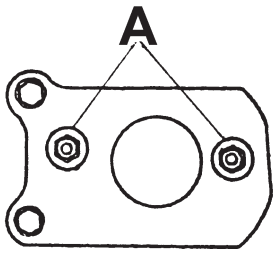
CHECK

It should be possible to push down the belt 4 ± 0.5 mm when applying a pressure of 300 g .

ADJUSTMENT

1. Loosen both screws (A) holding the motor.
2. Adjust belt tension by moving the motor back or forth
3. Tighten the screws.





21. SPEED SENSOR ADJUSTMENT

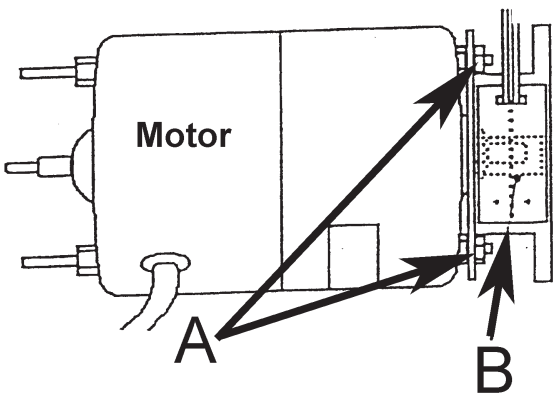
This check and adjustment can only be performed with the front cover conneted to the circuit board.

CHECK

Run the machine, if the machine stops running and the LCD indicates "overload" the speed sensor needs to be adjusted.

ADJUSTMENT

1. Loosen the two nuts (A)
2. Adjust the speed sensor housing (B) up or down until the motor runs without stopping for the "Overload" message.
3. Tighten the nuts (A).



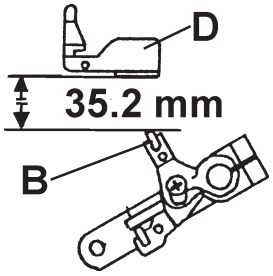
22. SETTING BETWEEN THREAD TAKE-UP AND UPPER / LOWER THREAD GUIDE

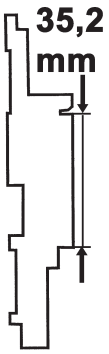
Front cover must be mounted

CHECK

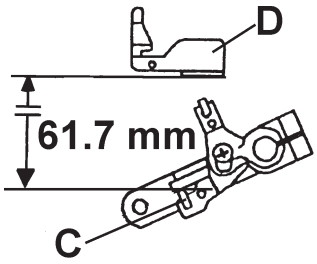
When the upper looper is in its lowest position the distance between the upper looper thread guide (D) and...

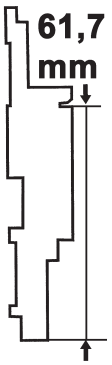
the upperlooper thread take-up (B) should be



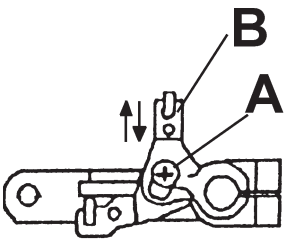


the lower looper thread take-up (C) should be





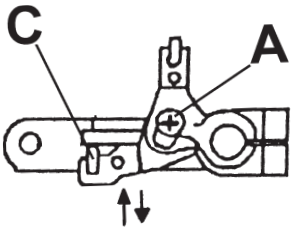
ADJUSTMENT



1. Move the upper looper to its lowest position by turning the handwheel towards you.

2. Loosen the screw (A).

3. Adjust the distance between the thread guide (D) and the upper looper thread take-up (B) so it's 35.2 mm.



4. Adjust the distance between the thread guide (D) and the lower looper thread take-up (C) so it's 61.7 mm.

5. Tighten the screw (A).

NOTE ! Both upper and lower thread take-up is adjusted at the same time.

23. CHAIN STITCH LOOPER TAKE UP LEVER

Base plate must be mounted

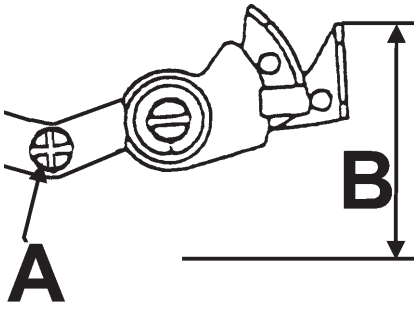
CHECK

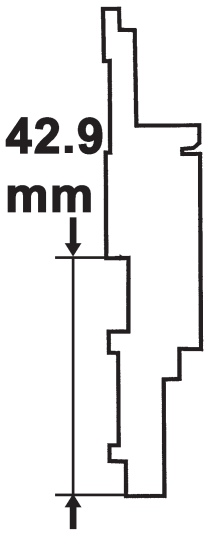
When the chain stitch looper is in it's upper turning point the distance between Chain stitch looper take up lever and base plate should be 42.9 ± 0,3 mm.

ADJUSTMENT

Loosen screw (A) and adjust the height of the take up lever.

B= 42.9 ± 0.3 mm





24. STITCH LENGTH

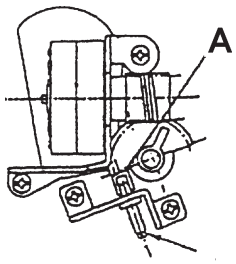
This check and adjustment can only be performed with the Front cover connected to the circuit board

CHECK

1.In order to get the starting point of step motor switch the machine off then on.
2.Set stitch length to 5.0 mm and differential feed ratio to 1,0.
3.Run the machine and then switch it off.
4.Check if the movement of of feed dog represents 5.0 ± 0,2mm.

ADJUSTMENT

1. Remove base plate.
2.In order to get the starting point of step motor switch
the machine off then on.
3.Set stitch length to 5.0 mm and differential feed ratio to 1.0.
4.Turn the adjusting screw (A).
5.Re-check.



25. DIFFERENTIAL FEEDING

This check and adjustment can only be performed with the Front cover connected to the circuit board
CHECK

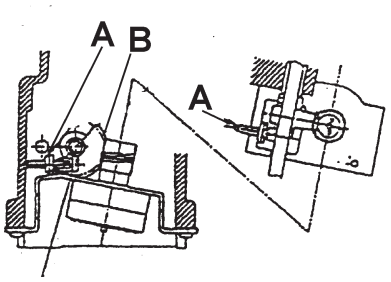
1. In order to get the starting point of step motor switch the machine off then on.
2.Set stitch length to 5.0 mm and differential feed ratio to 1.0.
3 Run the machine and then switch it off.
4 Check if the movement of of feed dog and differential feed dog have the same amount of feeding (0 ± 0.2 mm).

ADJUSTMENT

1. Remove base plate.
2.In order to get the starting point of step motor switch the machine off then on.
3 Set stitch length to 5.0 mm and differential feed ratio to 1.0.
4. Turn the adjusting screw (A).
5 Re-check

B= Worm wheel

Back



Front

26. THREAD TENSION

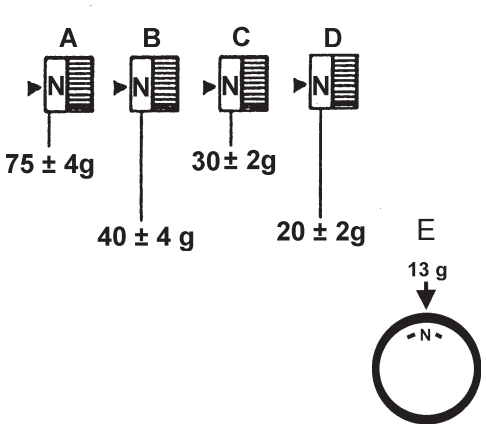
CHECK

Check thread tension according to manual.

Thread : Cotton # 60/3

Power of thread tension

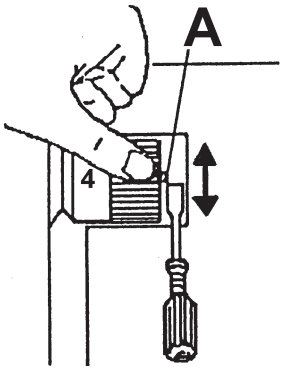
A	75 ± 4g
B	40 ± 4g
C	30 ± 2g
D	20 ± 2g
E	13 ± 3g



ADJUSTMENT

1. Set thread tension dial at normal position ” N”.

2. The basic setting may be adjusted by blocking the plate sheet at the edge of the tread tension dial by means of a small screw driver while moving the thread tension dial.



Thread tension harder

Thread tension looser

27. PRESSERFOOT HEIGHT

Check

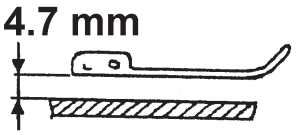
When the presser foot is in it's highest position the distance between the stitch plate and the presser foot should be 4.7 mm.

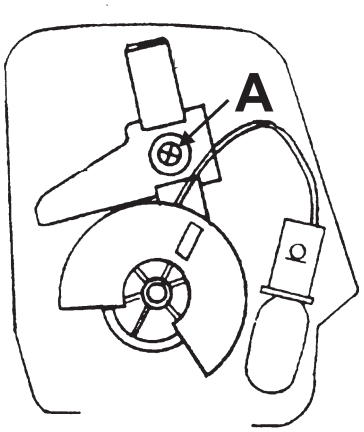
Adjustment

1. Loosen the screw (A).

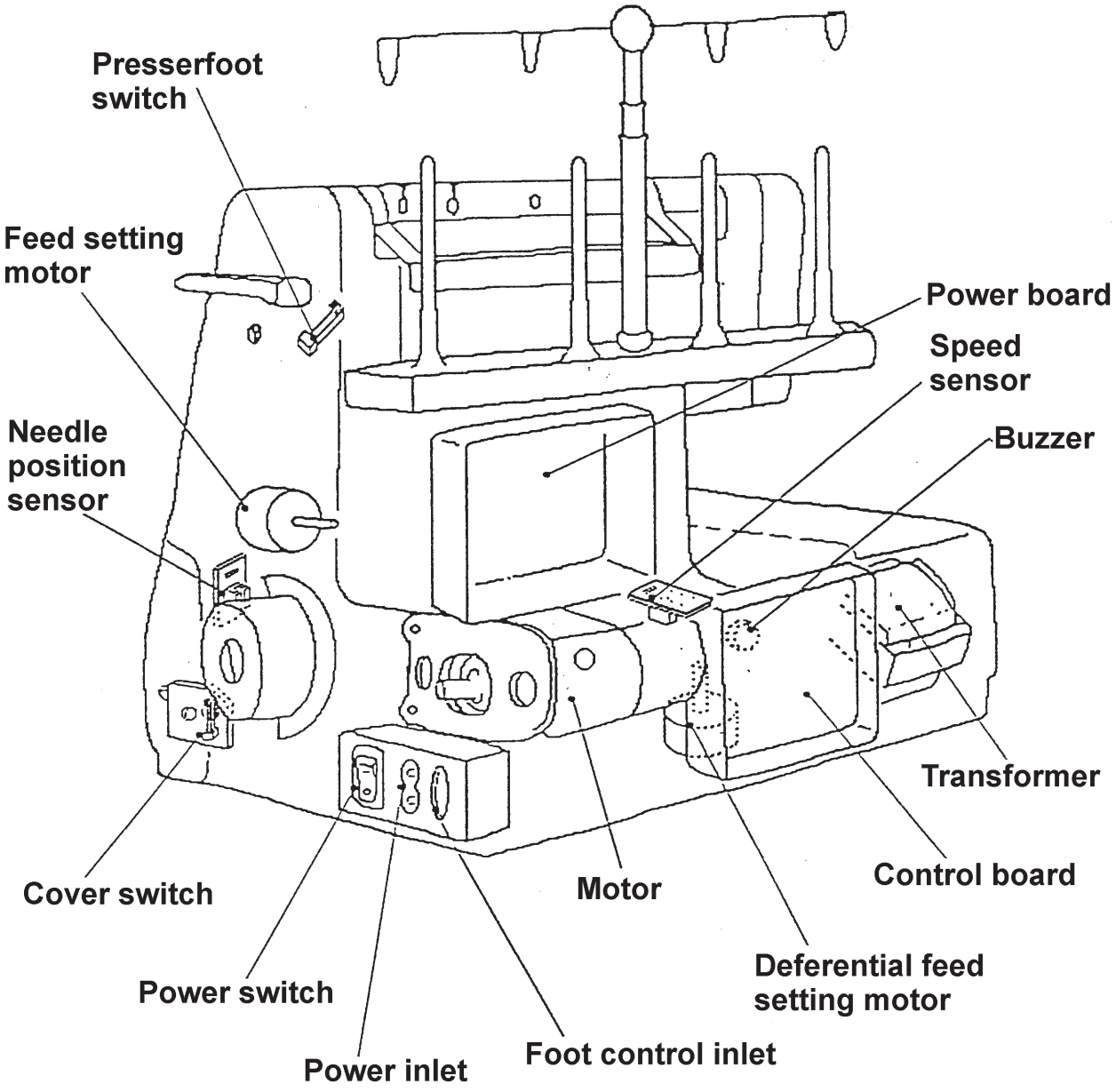
2. The presser bar height can now be adjusted up or down until the distance is 4.7 mm between the presser foot and the stitch plate.

3. Tighten the screw (A).

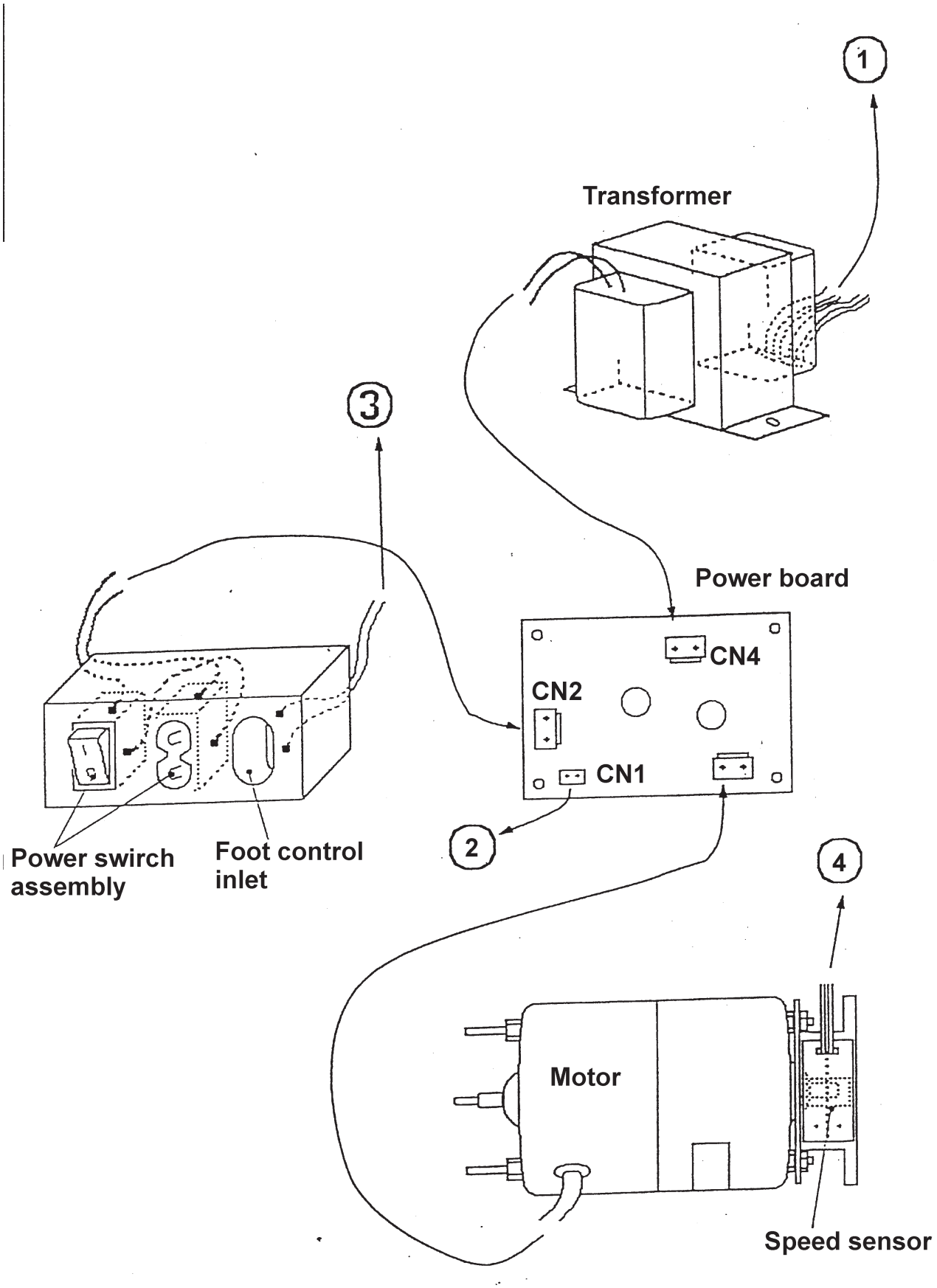




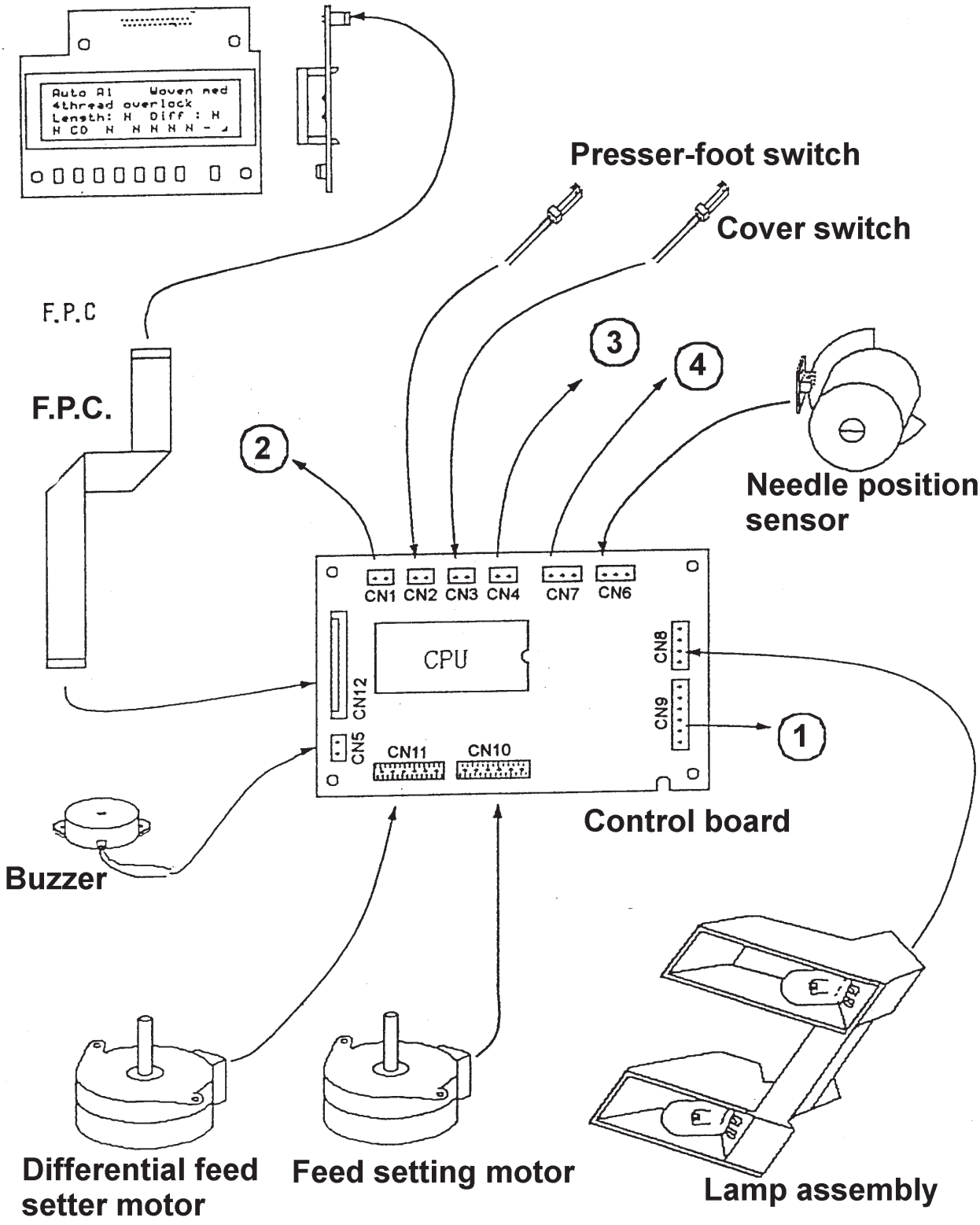
Wiring diagram



Wiring diagram

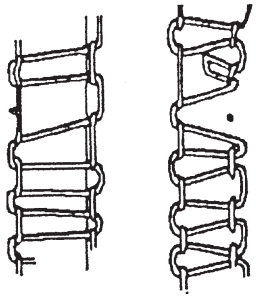


Wiring diagram



Fault finding diagram- mechanically

1. Skipped stitches - Lower looper can't catch the needle thread



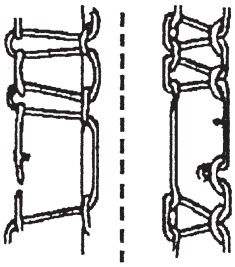
Make sure that...

the needle is a SCHMETZ 130/705 H.
the needle is set correctly.
the needle is not bent.

Check or adjust the following settings

A. 2. Clearance between lower looper and needles
B 11. Clearance between needle supports and needle.
C. 3. Setting of the lower looper in relation to the needle.
D. 4. Needle height - setting between needle and lower looper.
E. The point of the llower ooper has been broken - change looper

2. Skipped stitches - the needle can't catch upper looper thread



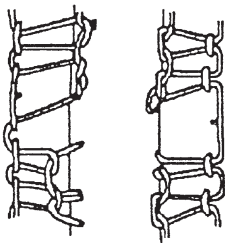
Make sure that...

the needle is set correctly.
the needle is not bent.

Check or adjust the following settings

A. 5. Setting between upper looper in relation to the needle.
B. 4. Needle height - setting between needle and lower looper.
C. 6. Timing of upper looper and lower looper.
D. 7. Clearance between upper looper and lower looper.

3. Skipped stitches - Lower looper can't catch upper looper thread



Make sure that...

the threading is correctly

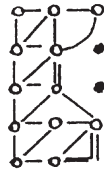
Check or adjust the following settings

A. 6. Timing of upper looper and lower looper
_____B. 7. Clearance between upper looper and lower looper.
C. The point of thelower looper has been broken - change looper

4. Skipped stitches- The double chain looper can not catch lower looper thread

Make sure that...

the thread tension of thread guide is set correctly.
the size of needle is correctly.
the LCD selection is set correctley



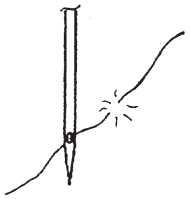
Check or adjust the following settings

A. Clearance between double chain looper and needle
B. Distance from double chain looper needle
C. Clearance between needle guide and needle

5. Needle thread breaks

Make sure that...

the thread is an overlocker thread
the threading is correctly
the thread tension is correctly
the thread guide isn't damaged - change thread guide
the lower looper isn't damaged - change lower looper



Check or adjust the following settings

_____A. 2. Clearance between lower looper and needles
B. 3. Setting of the lower looper in relation to the needle
C 4. Needle height
D. 11. Clearance between needle supports and needle.

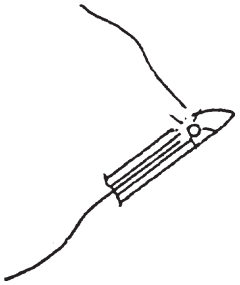
6. Looper thread breaks

Make sure that...

the threading is correctly
the thread tension is correctly
the thread guide isn't damaged - change thread guide

Check or adjust the following settings

_____A. 13. Setting between thread take up and upperlooper thread guide
B. 13. Setting between thread take up and lower looper thread guide
C. 6. Timing of upper looper and lower looper.
D. 7. Clearance between upper looper and lower looper.



7. Needle breaks

Make sure that...

the thread is an overlocker thread.
the needle is set correctly.
the thread is inside of the thread guide.
the needle is not bent.

Check or adjust the following settings

_____A. 2. Clearance between lower looper and needles.
B. 11. Clearance between needle support and needle.
C. 4. Needle height
D. 6. Timing of upper looper and lower looper.
E. 7. Clearance between upper looper and lower looper

8. Thread breaks on double chain sewing

Make sure that...

the thread is an overlocker thread
the threading is correctly

Check or adjust the following settings

A. Feed dog height .
B. Presserfoot height
C. Sideways setting of presserfoot
D.
E. Thread tension

9. Feeding is not correctly

Make sure that...

the stitch length is set correctly.
the pressure foot pressure is set correctly
the differential feeding is set correctly

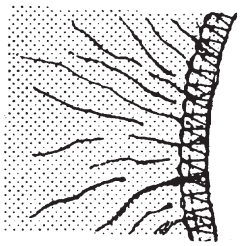
Check or adjust the following settings

_____A. 9. Feed dog height
B. Stitch plate isn't damaged.
C. Presser foot isn't damaged.
D. 10. Position of upper / lower knife

10. Fabric is shrinking

Make sure that...

the differential feeding is set correctly
the thread tension is set correctly.
the threading is correctly.



Check or adjust the following settings

_____A. 16. Thread tension
B. 15. Differential feeding
C. 13. Setting between thread take up and lower looper.
D. 13. Setting between thread take up and upper looper.

11. Thread tension

Make sure that...

the thread tension is set correctly.

Check or adjust the following settings

_____A. 16. Thread tension
B. 13. Setting between thread take up and upper looper thread guide
C. 13. Setting between thread take up and lower looper thread guide

12. Motor is not running

Make sure that...

the front cover closes correctly.
the power cord is correctly connected.

Check or adjust the following settings

_____A. 12. Belt tension - motor belt.

13. Cutting of the knifes

Make sure that...

the upper knife is set correctly.
the upper knife is set tightly.

Check or adjust the following settings

_____A. 10. Position of upper / lower knife
B. The upper knife isn't damaged - change knife
C. The lower knife isn't damaged - change knife

Fault finding diagram - Electronically

MAIN MOTOR

(1) Machine runs with high revolution, after it's switched on.

Remove connector (CN1) then switch on:
— If normal, change control board.
— If abnormal, change power board.

(2) Machine runs after you connected the foot controller.

— Change foot controller.

(3) Machine runs with high revolution after steps on foot controller, then indicates”overload” in seconds, and the machine stops.

— Change speed sensor board.

(4) After steps on foot controller machine runs, but indicates "overload” in seconds and the machine stops.

— Change upper stop sensor board.

(5) After steps on foot controller, machine does not run but indicates ”overload”

Change power board:
— If abnormal, change control board
— If still abnormal, change motor.

(6) After steps on foot controller, machine does neither run nor does it indicate "overload”.

— Change foot controller.
— If still abnormal, change control board.

(7) After steps on foot controller, machine runs, but with unstable revolution or sometimes stops.

Remove speed sensor board, check if disc is broken or not:
— If abnormal, change disc.
— If normal, change speed sensor.
— If still abnormal, change control board.

LCD

(1)Not indicating normally.

— Change LCD.
— Control board.
— Change flexible.

(2)Indicating vague.

— Regulate the volume on control board.
— Change LCD.

(3)Back-light not working. (Can indicate lettering.)

— Change LCD.
— Change control board.

SAFETY SWITCH

(1)Machine runs with the cover opened.

—- Change cover switch assembly.

(2)Machine does not run with closed cover, and indicates ”Close front cover"

— Regulate the position of the switch.
— If defective cover switch, change cover switch

BUZZER

Buzzer does not sound.

— Change control board.

FEED & DIFFERENTIAL

Feeding is abnormal.

— Change control board.
— Change transformer.
— Change step motor.

LIGHTING

Bulb not working

— If bulb defective, change bulb.
— If loose contact of lamp terminal, tighten the bulb.
— Measure the voltage to (CN8) on control board, change control board if abnormal voltage.
— Change transformer.

OTHERS

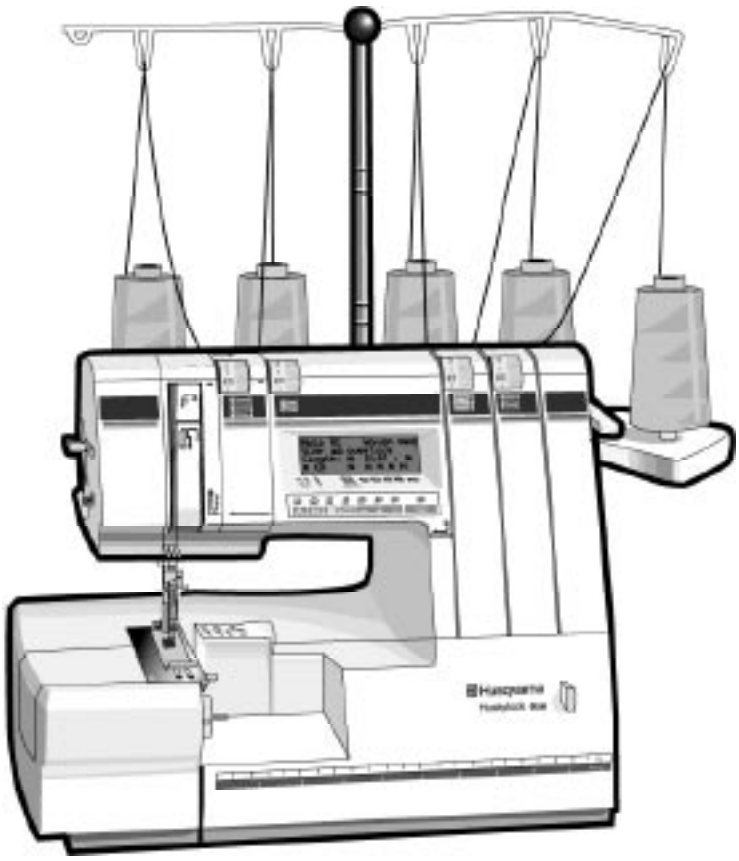
Machine does not run, LCD back light & lamp does not work.

— Change power supply cord.
— Measure the voltage of CN2, if abnormal change power switch assembly
— Measure the voltage on CN4, if abnormal change power board
— Change transformer.
— Change control board.

Made in Sweden

Husqvarna VIKING

Parts List



Huskylock 936

Made in Sweden
Printed in Sweden
May 2006

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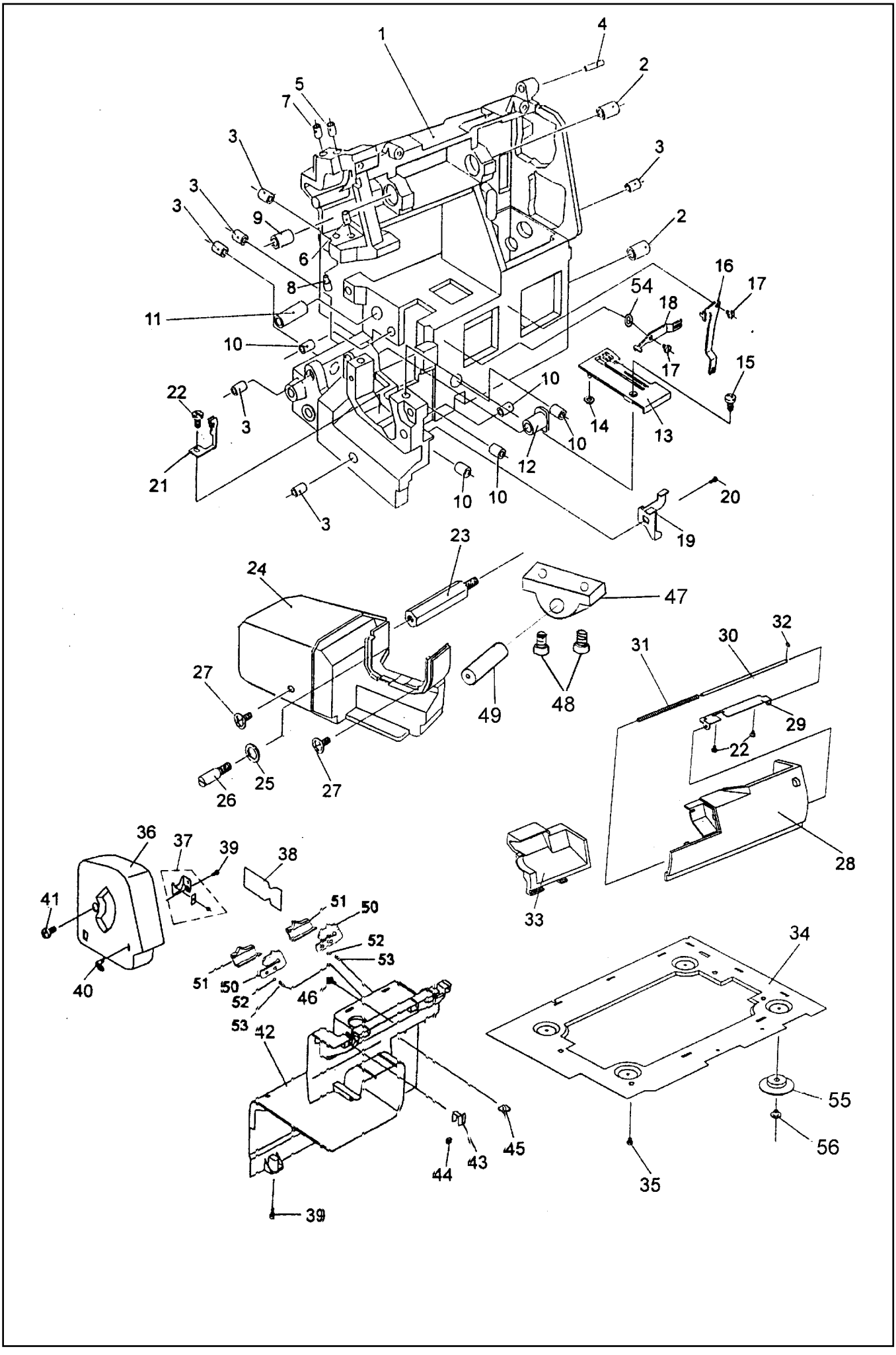
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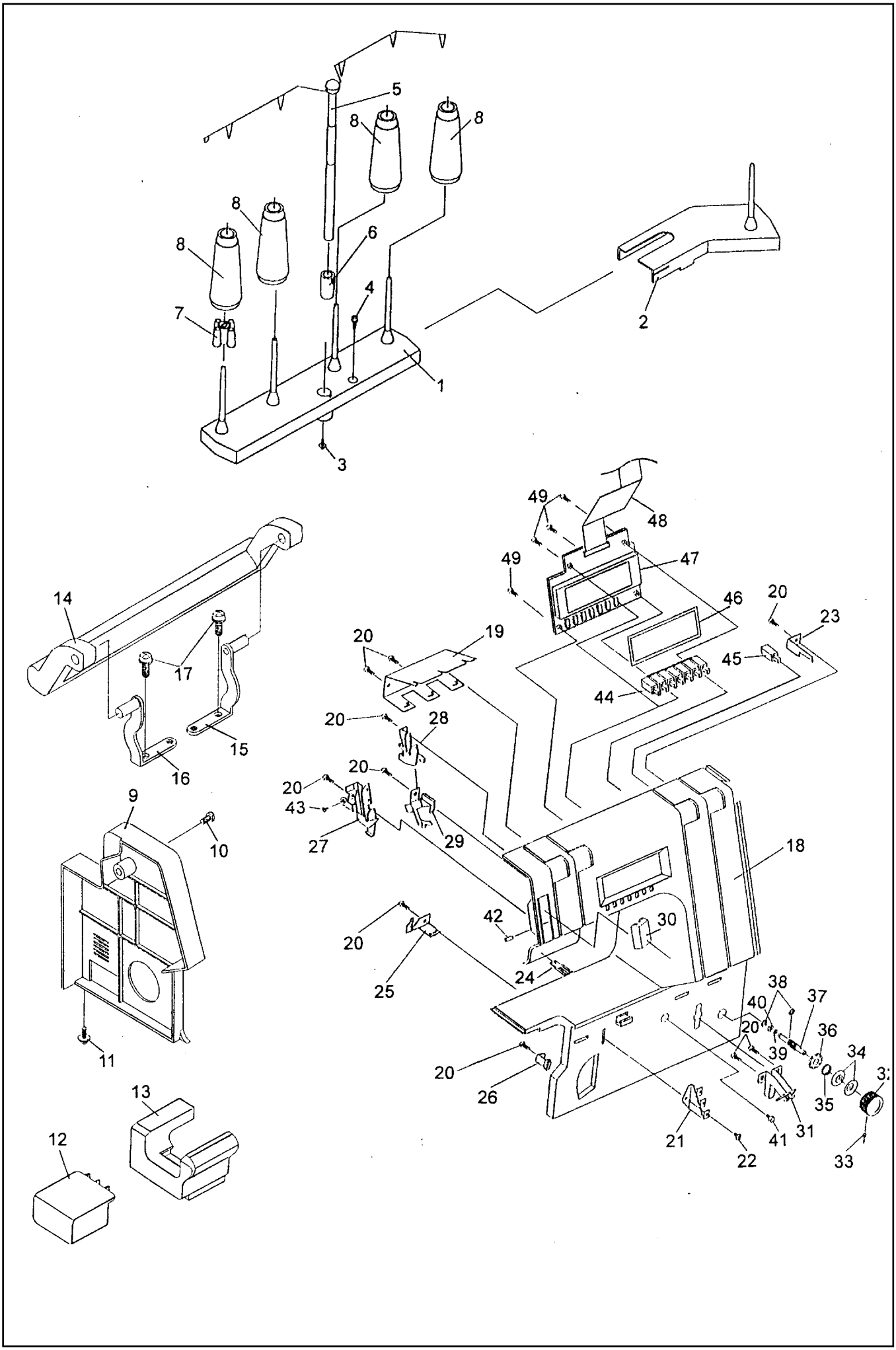
INDEX NO.	REF. NO.	PART NAME
2	2141003-542	Lower shaft bushing (1)
3	2141004-221	Cutter link bushing (1)
4	50405-E	Spring pin
5	2141002-271	Needle bar bushing (1)
6	2141002-272	Needle bar bushing (2)
7	2141002-585	Presser bar bushing (1)
8	2141002-586	Presser bar bushing (2)
9	2141003-543	Lower shaft bushing (2)
10	2141004-222	Cutter link bushing (2)
11	2141004-455	Differential feed shaft bushing
12	2150003-543	Lower shaft bushing (2)
13	2150001-501	Needle plates ass'y up to #389611
	2150001-501-E	Needle plates ass'y from #389612
14	90301	O-Ring
15	10811	Set screw
16	2150001-505	Needle plate sensor levi
17	11509	Screw
18	2150001-507	Needle plate sensor link
	2150001-507-B	Needle plate sensor link from #389612
19	2141002-475	Stopper
20	10941	Screw
21	2150002-509	Chain stitch needle guide assy' (up to #389611)
22	11907	Screw (up to #389611)
23	2141001-145	Side cover assembly foot
24	2141001-162-651	Side cover
25	60159	Washer
26	2141001-185	Assistant plate shaft
27	10981	Screw
28	416 10 40-01	Front Cover - Husqvarna Viking
29	2141001-178	Front cover hinge
30	2141001-125	Front cover shaft
31	2141001-126	Front cover spring
32	40110	E-Ring
33	416 10 41-01	Cutter Cover
34	416 11 12-01	Base
35	10946	Screw
36	416 10 42-01	Face Cover
37	1840002-660	Thread cutter
38	2141001-323	Face cover seat
39	11203	Set screw
40	2141002-673	Assistant thread guide
41	11913	Set screw
42	416 10 43-01	Rear cover
43	2141002-111	Thread guide-A
44	2141002-118	Felt
45	30301	Square nut
46	10986	Screw
47	416 11 18-01	Lower shaft bushing support
48	9701516-507	Hexagon screw
49	2150003-553	Lower shaft bushing
50	2141012-116	Thread guide (F)
51	2141002-149	Thread giude (F) holder
52	90206	Position decided bal
53	1650004-424	Position decided spring
54	60167	Washer
55	2141001-153	Swallow rubber foot
56	2141001-122	Set pin for swallow rubber foot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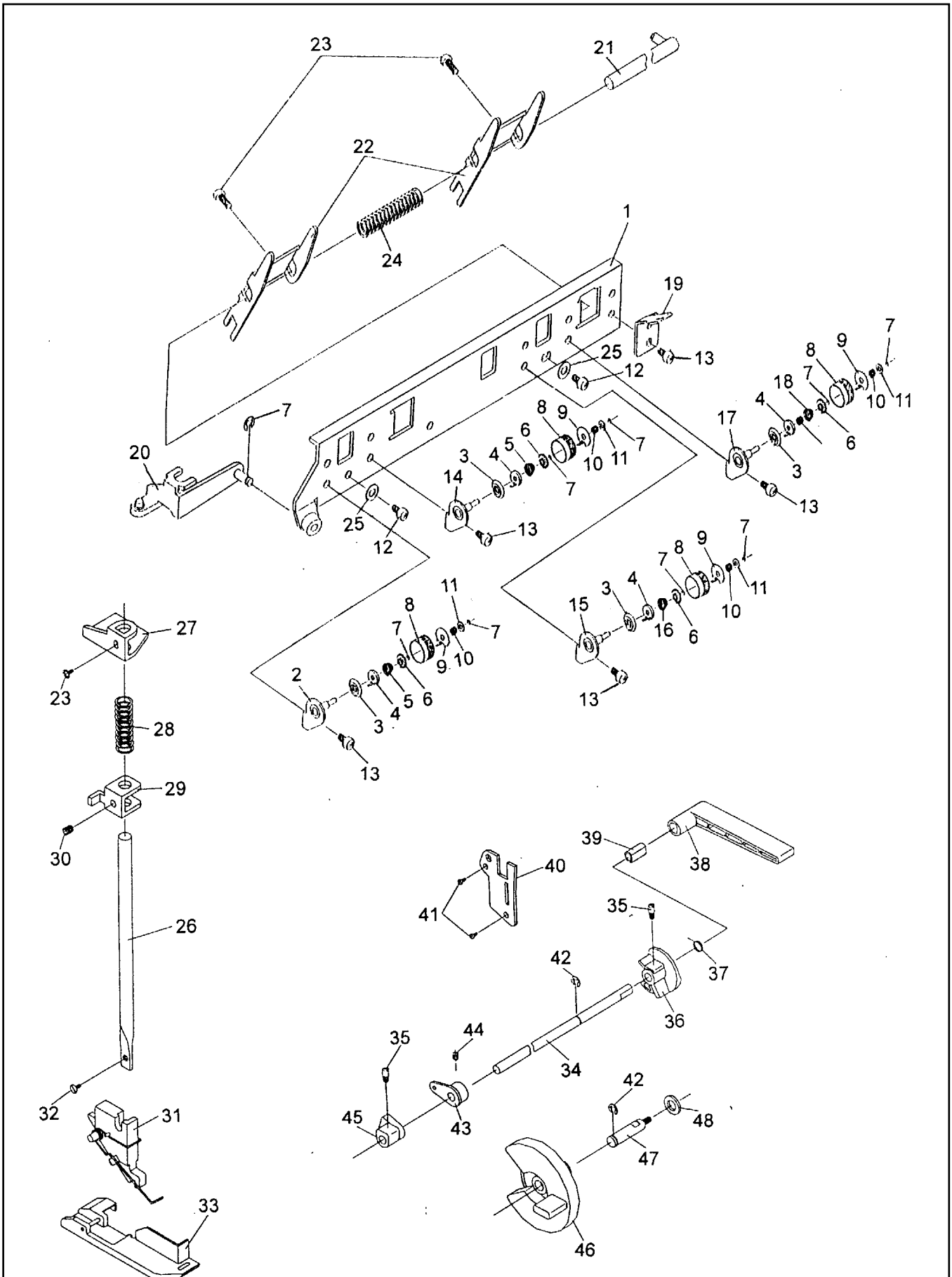
INDEX NO.	REF. NO.	PART NAME
1	2141002-180-651	Spool pin stand (1)
2	2150002-180	Spool pin stand
3	11054	Set screw
4	11207	Set screw for spool pin stand
5	2150002-190	Telescopic thread stand (1)
6	2141002-196-651	Telescopic thread stand collar
7	1250002-197	Thread holder
9	416 10 44-01	Motor Cover
10	11936	Set screw for motor cover
11	11203	Set screw for motor cover
12	2141001-163-651	Free-Arm cover
13	2141001-160-651	Cover for flat bed
14	2141001-373-651	Handle
15	2141001-376	Handle hinge - L -
16	2141001-377	Handle hinge - R -
17	10955	Set screw for handle hinge
18	416 10 45-01	Front panel
19	2154012-112	Thread guide (B)
20	10985	Tapping screw
21	2150002-113	Thread guide (C)- Version 1
	2154012-113	Thread guide (C) - fVersion 2
22	10408	Tapping screw
23	2150002-114	Thread guide (D)
24	2150002-115	Thread guide (E)
25	2141102-284	Upper looper thread guide
	2141012-284	Upper looper thread guide- Face lift
26	2141002-285	Lower looper thread guide
	2141012-285	Lower looper thread guide - Face lift
27	2150002-281	Take-up lever thread guide - L
28	2150002-290	Take-up lever thread guide - R
29	2150002-280	Take-up lever thread guide - C
30	416 10 46-01	Take-up lever cover
31	2150002-618	Thread guide for assistant take-up lever
32	2150002-245	Assistant tension dial
	416 11 22-01	Assistant tension dial - Face lift
33	20304	Hexagon screw
34	5150002-255	Chain stitch looper tension dial
35	2150002-138	Tension spring
36	150002-126	Nut
37	2150002-246	Assistant tension dial shaft
38	40102	E - ring
39	60138	Washer
	60137	Washer- Face lift
40	60416	Wave washer
41	10981	Set screw
42	50302	Parallel pin
43	11213	Screw
44	416 10 47-01	LCD operating button
45	416 10 48-01	Speed change button
46	2143008-216	LCD protecting plate
47	2150008-710	LCD indicating plate
48	2143008-213	Printing electric board
49	11203	Tapping screw
50	416 10 50-01	LCD operating sticker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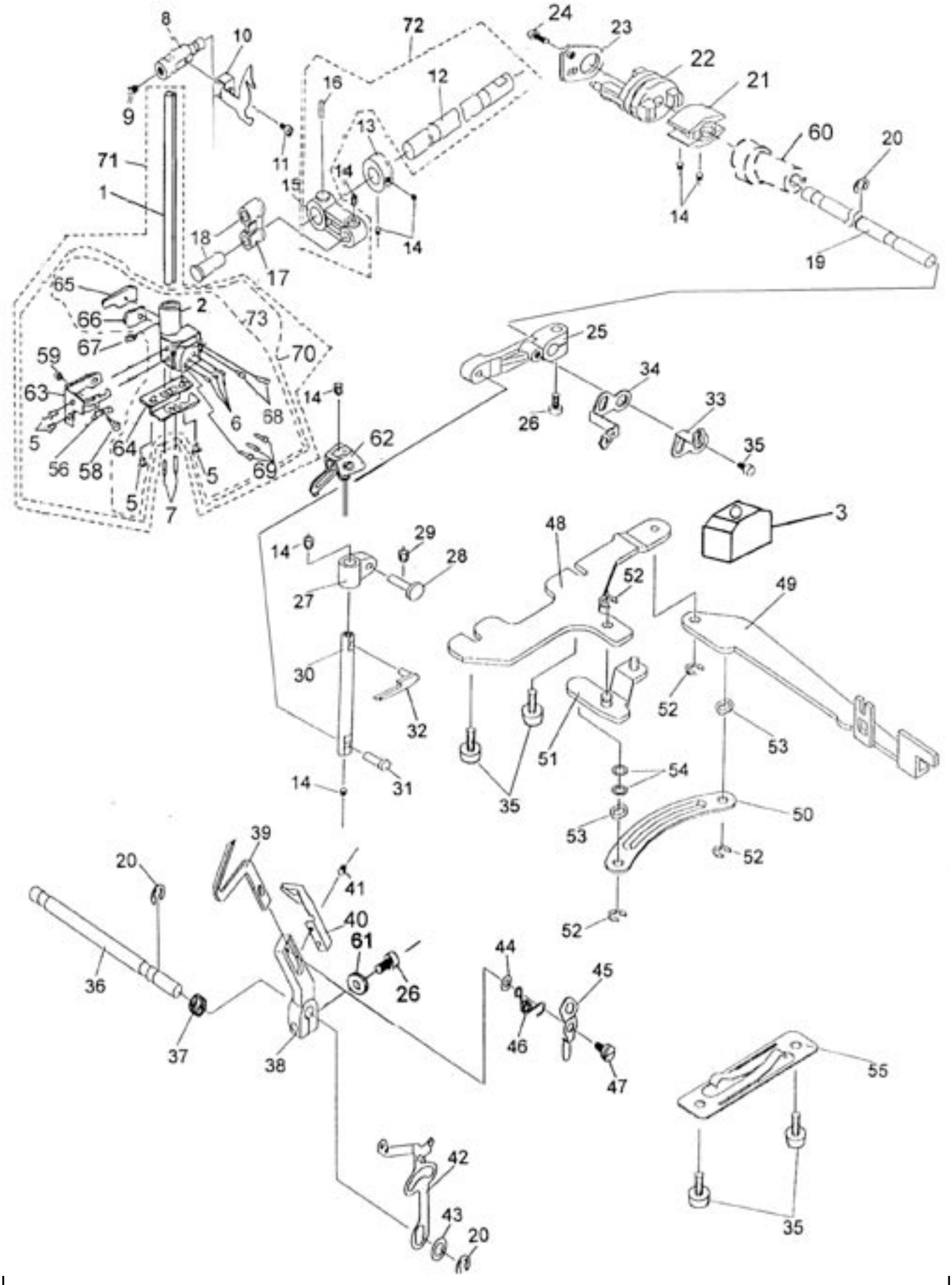
INDEX -NO.	REF. NO.	PART NAME
1	2141002-220	Tension holding plate
2	2141002-102	Tension bracket ass'y
3	2141002-131	Tension Disc - R -
4	2141002-156	Tension Disc bracket
5	1257002-138	Tension spring A
6	2141002-126	Tension nut
7	40110	E-Ring
8	416 11 21-01	Tension dial -Yellow
	2141022-153-651	Tension dial -Red
	2141032-153-651	Tension dial -Green
	2141042-153-651	Tension dial - Blue
9·	2141002-224	Tension Disc regulating plate
10	1650002-158	Tension Dial spring
11	60159	Washer
12	10964	Set screw
13	11907	Set screw
14	2141002-102	Tension bracket ass'y
15	2141002-102	Tension bracket ass'y
16	1257012-138	Tension spring - B -
17	2141002-102	Tension bracket ass'y
18	1257022-138	Tension spring - C
19	2150002-102	Tension bracket (5) ass'y
20	2141002-580	Pressure adjusting plate
21	2141002-250	Thread release shaft
22	2141002-396	Thread release plate - B
23	11934	Set screw
24	1840012-138	Thread release stud spring
25	60181	Washer
26	2141002-361	Presser bar
27	2141002-237	Driver plate
28	2141002-362	Presser bar spring
29	2141002-376	Presser bar bracket
30	10125	Set screw for bracket
31	2141002-520	Presser foot holder
32	11921	Set screw for presser foot holder
33	2150002-510	Presser foot
34	2141002-542	Presser foot lifter shaft
35	1650004-696	Set screw for thread release cam
36	2141002-241	Thread release cam
37	2141002-365	Presser foot lifter spring
38	2141002-366-651	Presser foot lifter lever
39	50421	Spring ring
40	2141002-378	Presser bar bracket stopper
41	10941	Set screw
42	40106	E Ring
43	2141002-543	Presserbar lifter stopper
44	10124	Set screw
45	2141002-541	Presser foot lifter cam
46	2141002-377-651	Pressure adjusting dial
47	2141002-584	Pressure adjusting stud
48	60113	Washer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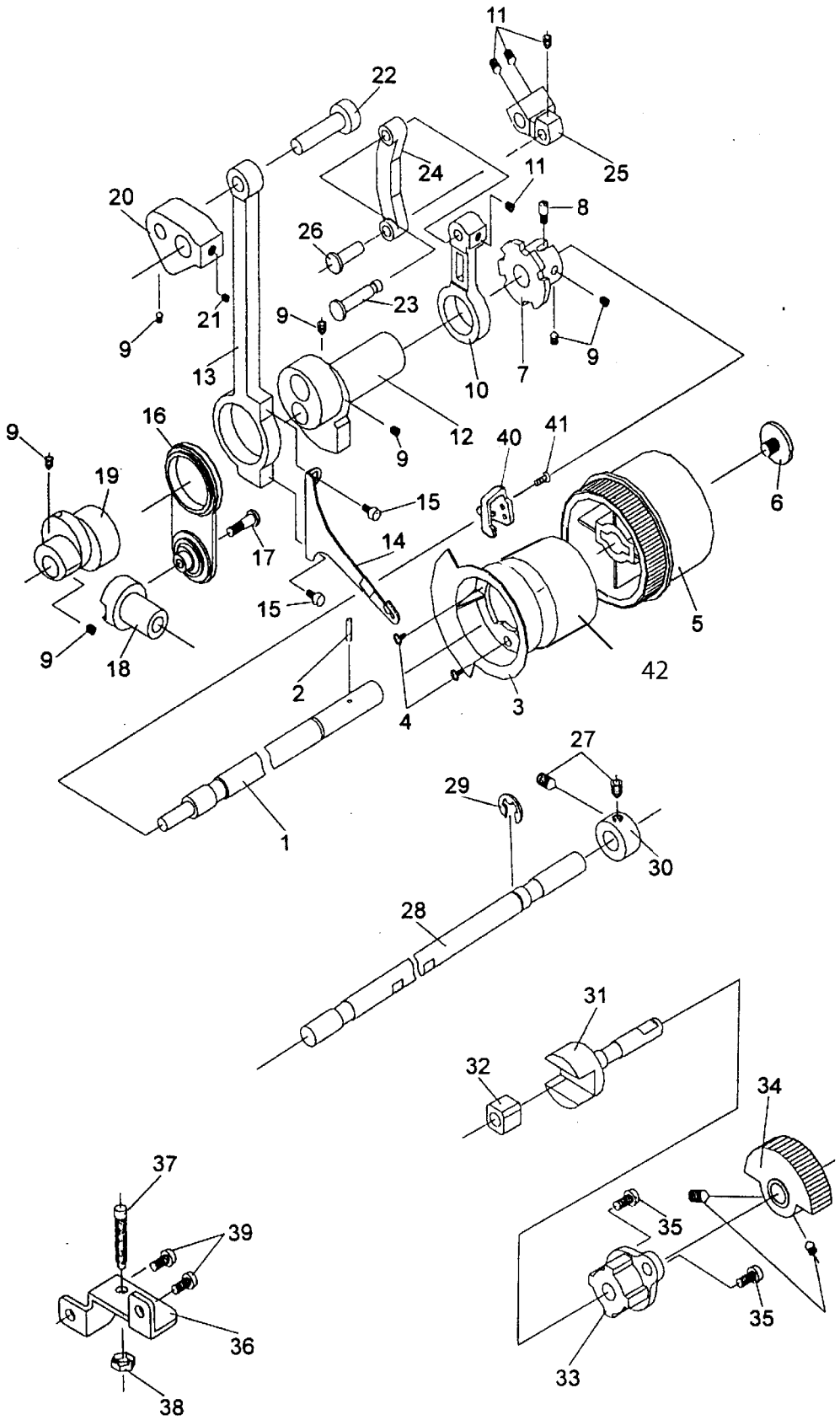
INDEX	REF. NO.	PART NAME NO.
1	2141002-311	Needle bar
2	416 11 16-01	Needle clamp
3	416 11 17-01	Clutch connecting block
4		
5	10601	Set screw for thread guide
6	10141	Set screw for needle
7	411 31 04-01	Needle 5 x 80 #
8	2141002-322	Needle bar crank
9	10132	Set screw for needle bar crank
10	2150002-411	Take-up lever
11	10965	Set screw for take-up lever
12	2141003-111	Uppershaft
13	5150003-138	Upper shaft collar (up to #389611)
	2141003-115	Upper shaft collar (from #389612)
14	10124	Screw
15	2141002-314	Needle bar driver lever
16	50406	Spring pin
17	2141002-321	Needle bar driver link
18	1250002-315	Needle bar driver link pin
19	2150003-415	Upper looper shaft
20	40116	E-Ring
21	2150003-491	Looper clutch exchange body
22	2150003-492	Looper clutch driver
23	2150003-499	Clutch adjusting plate
24	11927	Set screw
25	2141003-417	Upper looper driver lever
26	20204	Set screw
27	2141003-426	Upper looper fulcrum
28	2141003-436	Upper looper fulcrum shaft
29'	10125	Set screw
30	2141003-412	Upper looper stand shaft
31	2141003-418	Upper looper stand pin
32	2141003-433	Upper looper
33	416 10 52-01	Upper/lower looper take-up lever
35	10941	Set screw
36	2150003-425	Lower looper shaft
37	2141003-443	Lower looper adjusting spring
38	2141003-424	Lower looper stand
39	2141003-441	Lower looper
40	416 11 13-01	Needle guide plate
41	20308	Hexagon screw
42	416 11 20-01	Lower looper thread guide plate (up to #389611)
	2154012-590	Lower looper thread guide plate (from #389612)
43	60145	Washer
44	60504	Washer
45	416 11 14-01	Thread guide plate change lever
46	2141002-594	Thread guide plate spring
47	11052	Set screw
48	2150003-497	Looper clutch connecting plate
49	2150003-496	Looper clutch connecting rod
50	2150003-495	Looper clutch connecting rod-B
51	2150003-493	Looper clutch rod
52	40110	E-Ring
53	60405	Wave washer
54	60141	Washer
55	2150003-498	Looper clutch connecting spring
56	2150002-718	Needlebar tension disc
57	2150002-719	Needle bar tension spring
58	5150002-227	needle bar tension screw
59	30110	Nut
60	2150003-445	Upper looper link lever
61	60148	Washer
62	2141003-405	2-thread converter ass,y (from #389612)
63	2150002-341	Needle bar thread guide (1)
64	416 11 19-01	Needle bar thread guide (2)
65	2150002-715	Needle holder (1)
66	2150002-716	Needle holder (1)
67	10137	set screw (for needle clamp)
68	20309	Screw (for needle holder)
69	10953	Screw (for needle clamp cover)
70	2150002-340	Needle clamp ass'y
71	2150002-500	Needle bar ass'y
72	2141003-101	Upper shaft ass'y
73	2150002-230	Needle clamp sub assy'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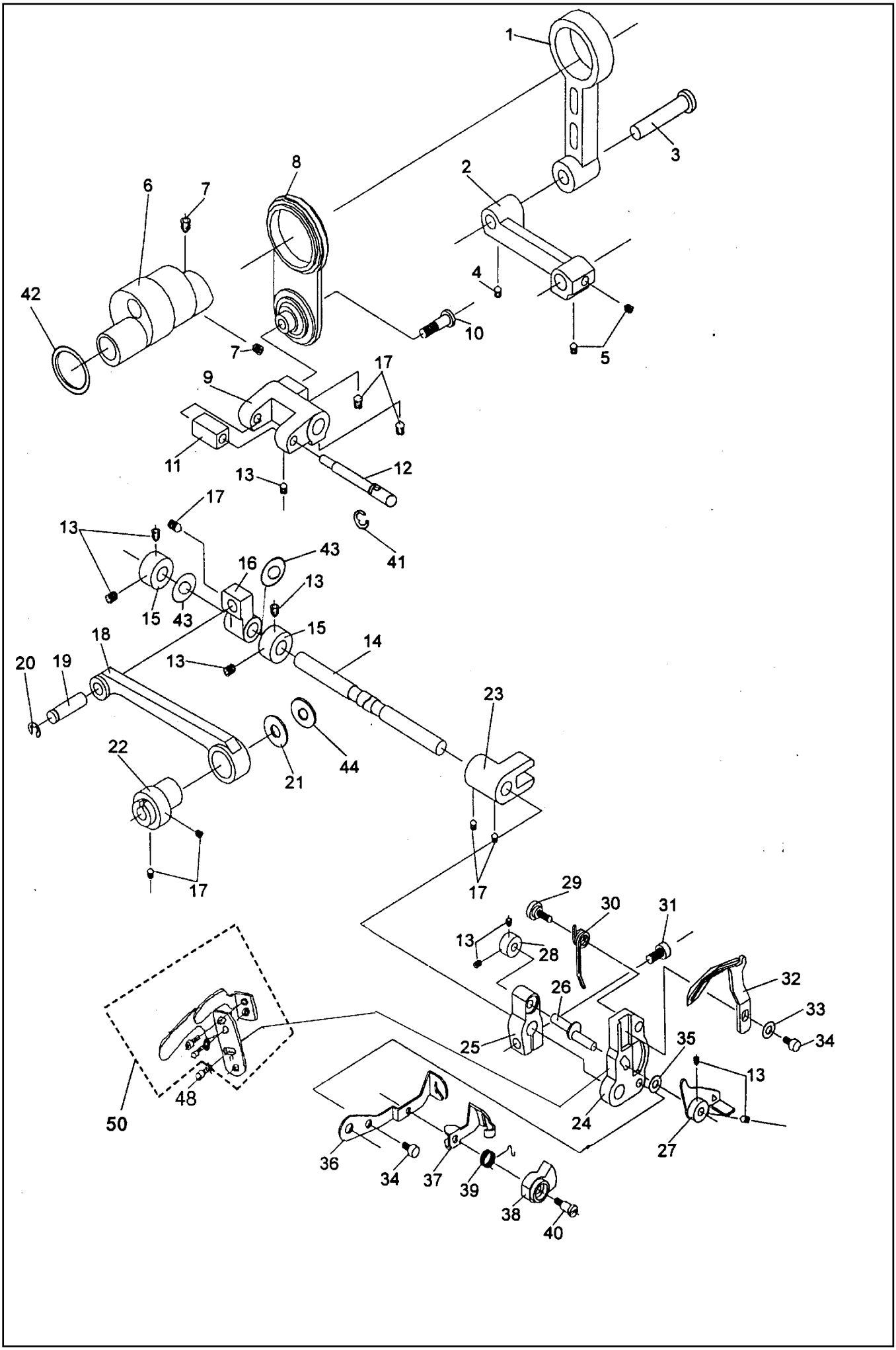
INDEX NO.	REF. NO.	PART NAME
1	2150003-541	Lower shaft
2	50415	Spring pin
3	2150008-262	Upper stop sensor disc
4	10988	Set screw
5	2150003-151-651	Handwheel
6	10936	Set screw
7	2141003-551	Lower shaft collar
8	1650004-696	Set screw Note! Only up to #389611
9	10125	Set screw
10	2141004-241	Feed link
11	10124	Set screw
12	2141003-119	Driver cam-A
13	2150003-331	Upper shaft driver link
14	2150002-617	Chain stitch looper for assistant take-up lever
15	10962	Set screw
16	2141003-460	Looperlink
17	11051	Set screw
18	2150003-445	Upper link lever
19	2141003-431	Driver cam-B
20	2141003-117	Balance crank
21	10126	Set screw
22	2141003-116	Upper shaft driver link pin
23	2141004-247	Feed link pin
24	2150004-671	Feed inter link
25	2150004-631	Feed lever(1) (up to #389611)
	2141004-631	Feed lever (from #389612)
26	2141004-647	Feed differiential pin
27	10135	Set screw
28	2150004-263	Feed shaft (up to #389611)
	2141004-263	Feed shaft (from #389612)
29	40106	E-Ring
30	416 01 55-01	Differential feed shaft collar
31	2150004-111	Feed regulator bushing
32	2141004-122	Feed regulator
33	2150004-165	Feed regulator bushing
34	2150004-287	Feed cam
35	10976	Set screw
36	2150004-133	Feed reglulator stand
37	10134	Set screw
38	30403	Adjusting nut
39	10964	Set screw
40	2150002-616	Chain stitch looper for assistant take-up cam
41	416 11 00-01	Set screw
42	416 11 11-01	Handwheel bush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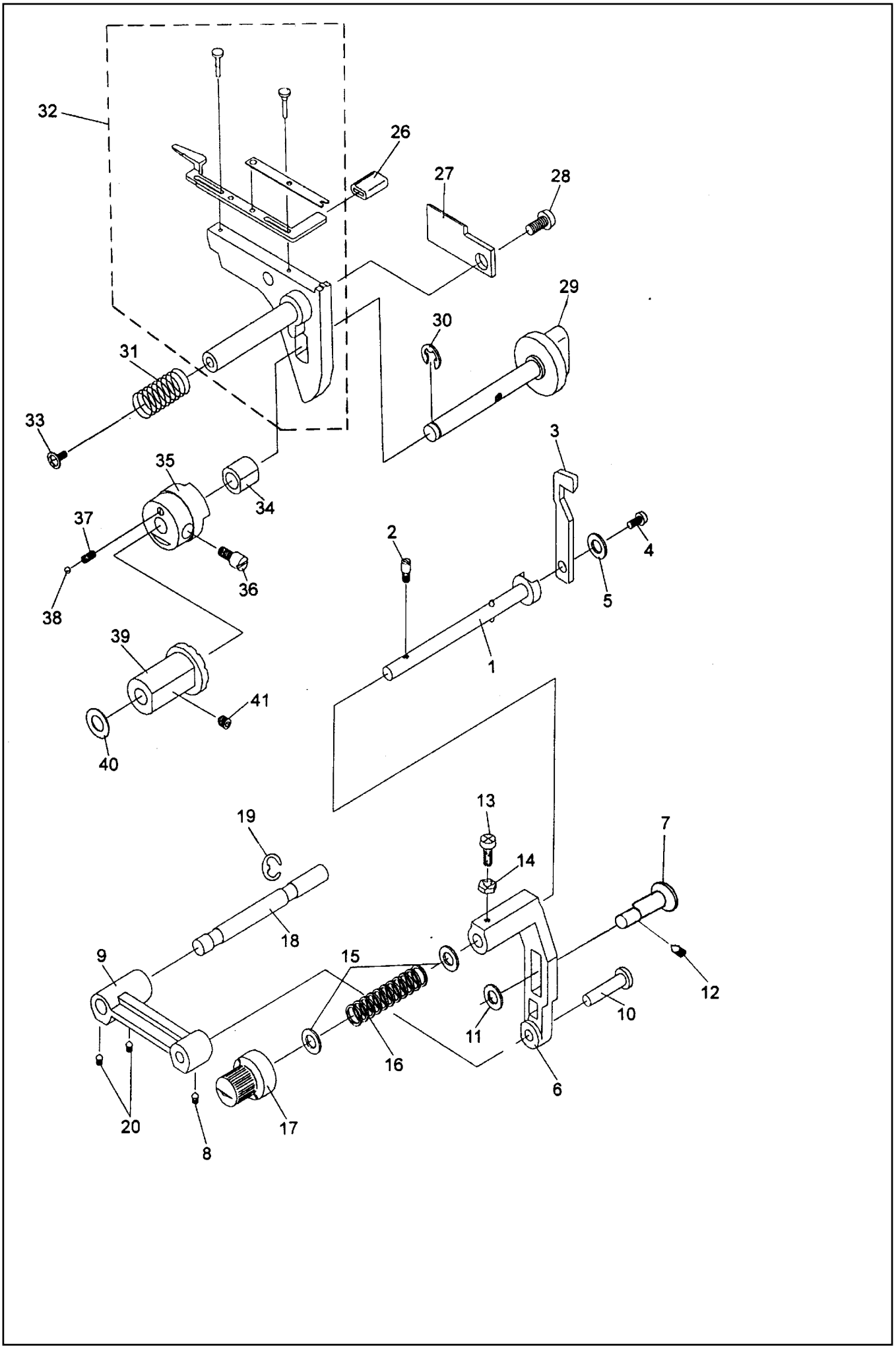
INDEX NO.	REF. NO.	PART NAME
1	2141004-232	Cutter driver link
2	2141004-215	Cutter link (1)
3	2141004-217	Cutter link (1) pin
4	9624504-407	Set screw
5	10131	Set screw
6	2141003-432	Driver cam-C
7	10125	Set screw
8	2141003-460	Looperlink
9	2150003-446	Lower looper side block shaft
10	11051	Screw
11	2150003-447	Chain stich looper side block
12	2150003-448	Chain stich looper side block shaft
13	10135	Set screw
14	2150003-474	Chain stich looper shaft
15	416 01 55-01	Differential feed shaft collar
16	2150003-473	Chain stich looper drive rod
17	10124	Set screw
18	2150003-472	Chain stich looper drive lever
19	2150003-482	Chain stich looper drive lever pin
20	40106	E-Ring
	40103	E-Ring - Face lift
21	60105	Washer
22	2150003-471	Chain stich looper drive cam
23	2150003-449	Chain stich looper connecting lever
24	2150003-476	Chain stich looper rod
25	2150003-477	Chain stich looper rod lever
26	2150003-479	Chain stich looper exchange pin
27	2150003-478	Chain stich looper exchange connecting rod
28	2150003-544	Exchange connecting rod collar
29	11509	Screw
30	2150003-481	Ring looper exchange spring
31	20204	Hexagon screw
32	2150003-475	Chain stich looper
33	60138	Washer
34	10941	Set screw
35	60106	Washer
36	2154013-483	Chain stich looper take-up lever
37	2154013-486	Chain stich looper thread guide
38	2150003-487	Spring cover
39	2150003-488	Spring
40	11055	Screw
41	40110	E-ring
42	60513	Washer
43	415 52 51-01	Washer
44	60107	Washer
48	20308	Screw (from #389612)
50	2150002-509-C	Needle guide ass'y (from #389612)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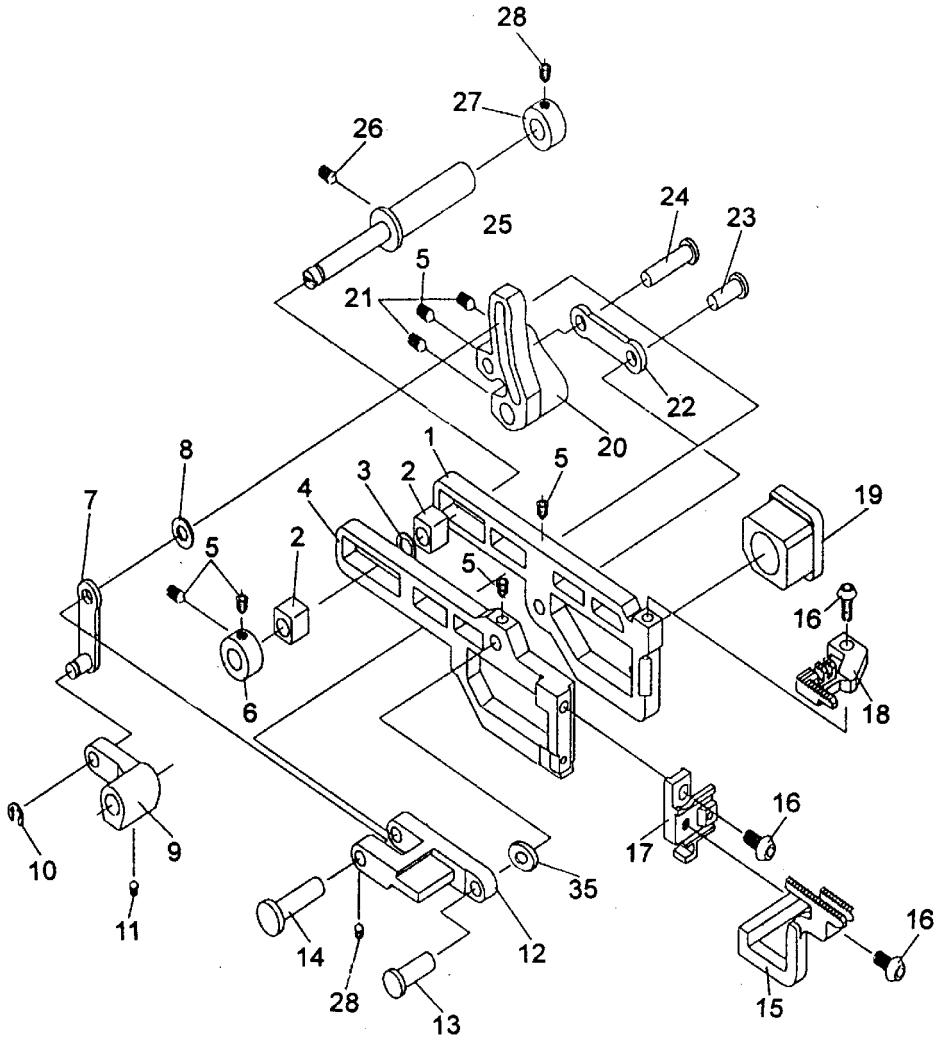
INDEX NO.	REF. NO. NO.	PART NAME
1	2141004-220	Cutter stand shaft
2	1650004-696	Set screw for feed cam
3	2141004-229	Upper cutter
4	10941	Set screw
5	60138	Washer
6	2141004-233	Upper cutter lever
7	2141004-224	Upper cutter lever pin
8	9624504-407	Set screw
9	2141004-216	Cutter link (2)
10	2141004-218	Cutter link (2) pin
11	416 11 03-01	Washer
12	10124	E-Ring
13	10972	Screw
14	30410	Adjusting nut
15	60127	Washer (to # 389611)
	60112	Washer (from #389612)
16	2141004-226	Cutter pressure spring
17	2141004-225	Cutter rotating dial
18	2141004-219	Cutter link shaft
19	40116	E-Ring
20	10131	Set screw
26	1650001-565-651	Stitch finger knob
27	2150004-237	Lower cutter
28	10945	Screw
29	416 10 54-01	Cutter-width adjusting dial
30	40104	E-Ring
31	2141004-234	Lower cutter spring
32	2141004-250	Lower cutter stand ass'y(to #389611)
	2150004-250	Lower cutter stand ass'y (from #389612)
33	11934	Screw
34	2141004-423	Dial shaft bushing
35	2141004-431	Cutting-width adjusting cam
36	1650004-696	Set screw
37	1650004-424	Position decided spring
38	90206	Position decided ball
39	2141004-422	Cutting-width adjusting dial bushing
40	60103	Washer
41	10146	Screw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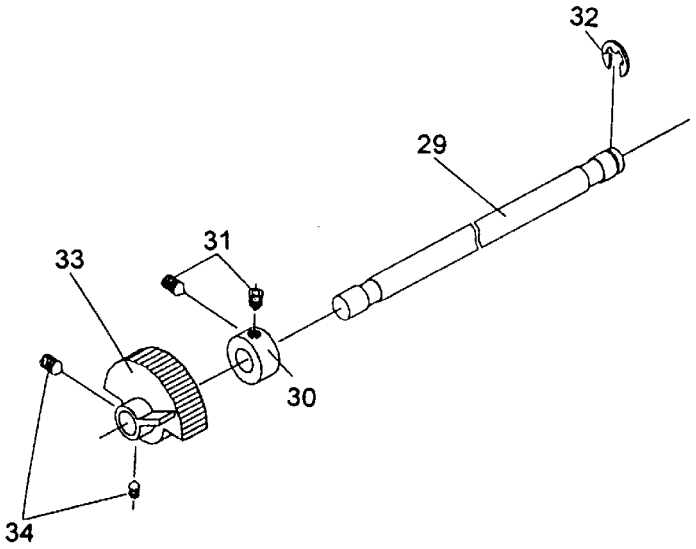
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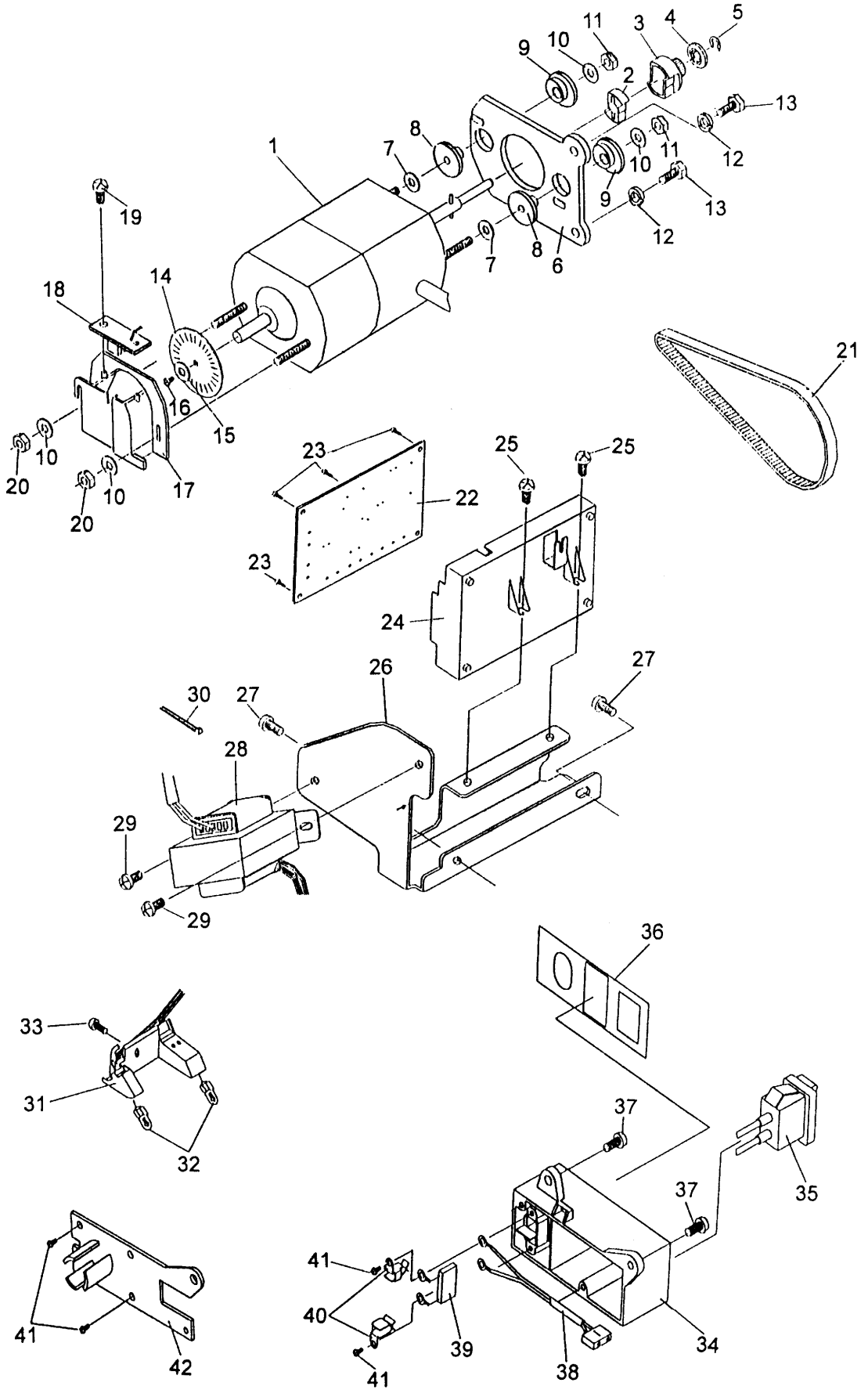
INDEX NO.	REF. NO.	PART NAME
1	2150004-621	Feed plate
2	2141004-629	Feed lifting block (3)
3	60507	Washer
4	2150004-622	Differential feed plate
5	10124	Set screw
6	2141004-656	Differential feed shaft collar (1)
7	2150004-643	Differential feed inter lever
8	60140	Washer
9	2150004-645	Differential adjusting lever
10	40104	E-Ring
11	10133	Set screw
12	2150004-614	Differential feed rod
13	2141004-637	Feed plate pin (1)
14	2150004-672	Differential feed rod pin
15	2150004-612	Differential feed dog
16	20210	Set screw
17	2141004-628	Feed adjusting plate
18	2150004-611	Feed dog
19	2150004-627	Block
20	2150004-641	Differential feed lever
21	10131	Set screw
22	2150004-623	Feed rod
23	2150004-637	Feed plate pin (2)
24	2141004-637	Feed plate pin (1)
24	416 01 60-01	Washer
25	2141004-685	Differential feed plate shaft
26	10132	Set screw
27	2141001-657	Differential feed shaft collar (2)
28	10135	Set screw
29	2150004-687	Differential feed shaft
30	416 01 55-01	Differential feed shaft collar
31	10135	Set screw
32	40106	E-Ring
33	2150004-287	Feed cam
34	10124	Set screw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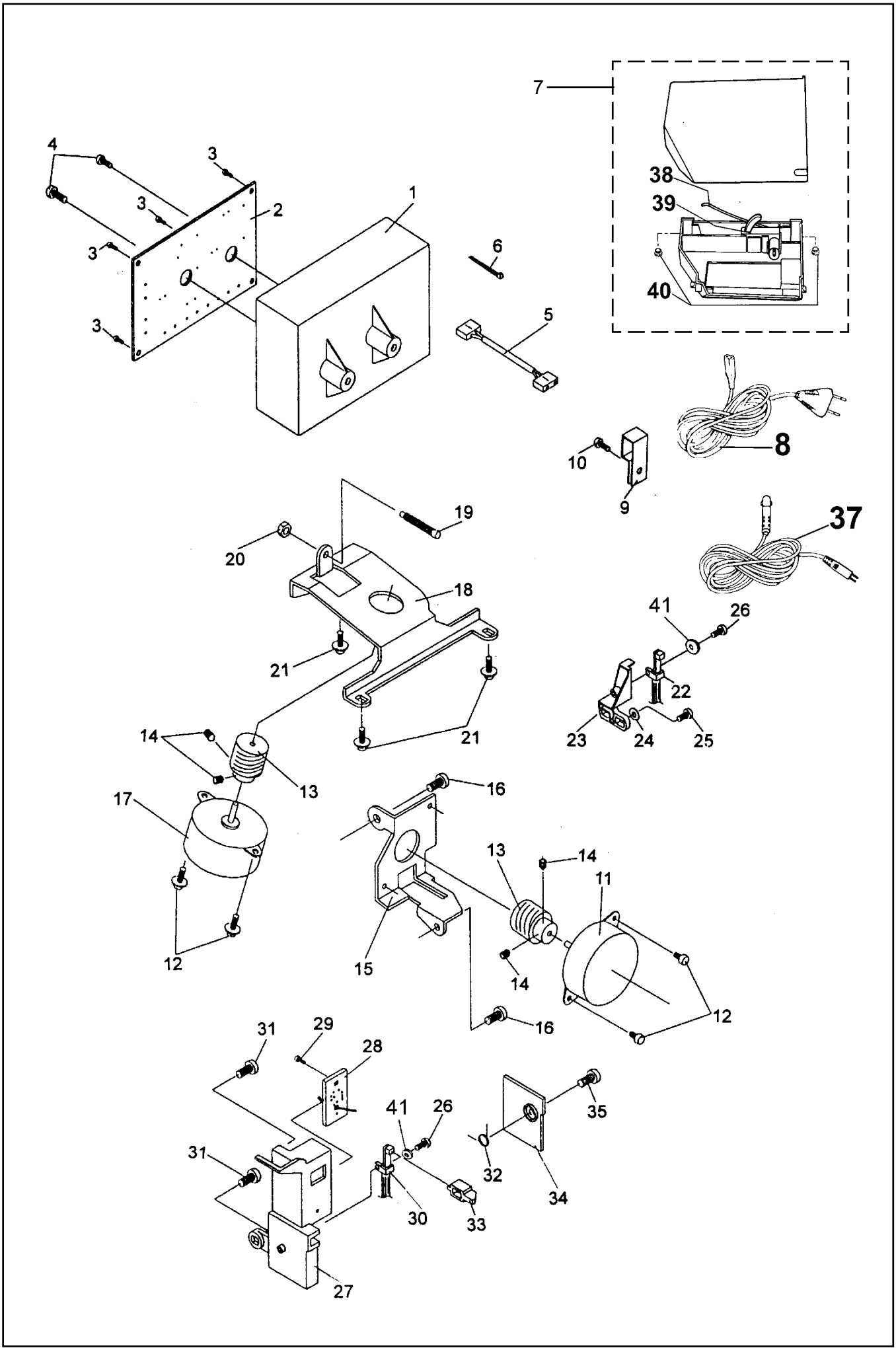
INDEX NO.	REF. NO.	PART NAME
1	2144518-835	Motor (230-240 volt)
	2144508-835	Motor (120 volt)
2	1650008-842	Cushion rubber
3	2150008-844	Motor pulley
4	2150008-845	Motor pully stopper
5	40110	E - Ring
6	2141008-824	Motor bracket
7	60162	Washer
8	150008-825	Insulating ring (inside)
9	150008-832	Insulating ring (outside)
10	60159	Washer
11	30111	Nut
12	60205	Spring washer
13	20107	Hexagon screw
14	2150008-252	Speed sensor plate
15	60122	Washer
16	11934	Washer
17	2150008-253	Speed sensor cover
18	2144508-250	Speed sensor ass'y
19	10985	Screw
20	30108	Nut
21	2150008-843	Timing Belt
22	2144508-202	Control electric board
23	11203	Screw
24	2143008-285	Control electric board case
25	10981	Screw
26	2143008-286	Control electric board bracket
27	10978	Screw
28	2143018-381	Transformer (230-240 volt)
	2143008-381	Transformer (120 volt)
29	11912	Screw
30	2143008-848	Cord binder
31	2144508-110	Lighting set
32	2143008-116	Light bulb
33	10942	Set screw
34	2150008-838	Terminal box
35	2144518-870	Switch ass'y (230-240 volt)
	2144508-870	switch ass'y (120 volt)
36	2150008-836	Power supply plate
37	10964	Set screw
38	2144508-903	Repeating connector ass'y
40	2150008-837	End of controller
41	10986	Screw
42	2150008-846	Termial box holder plate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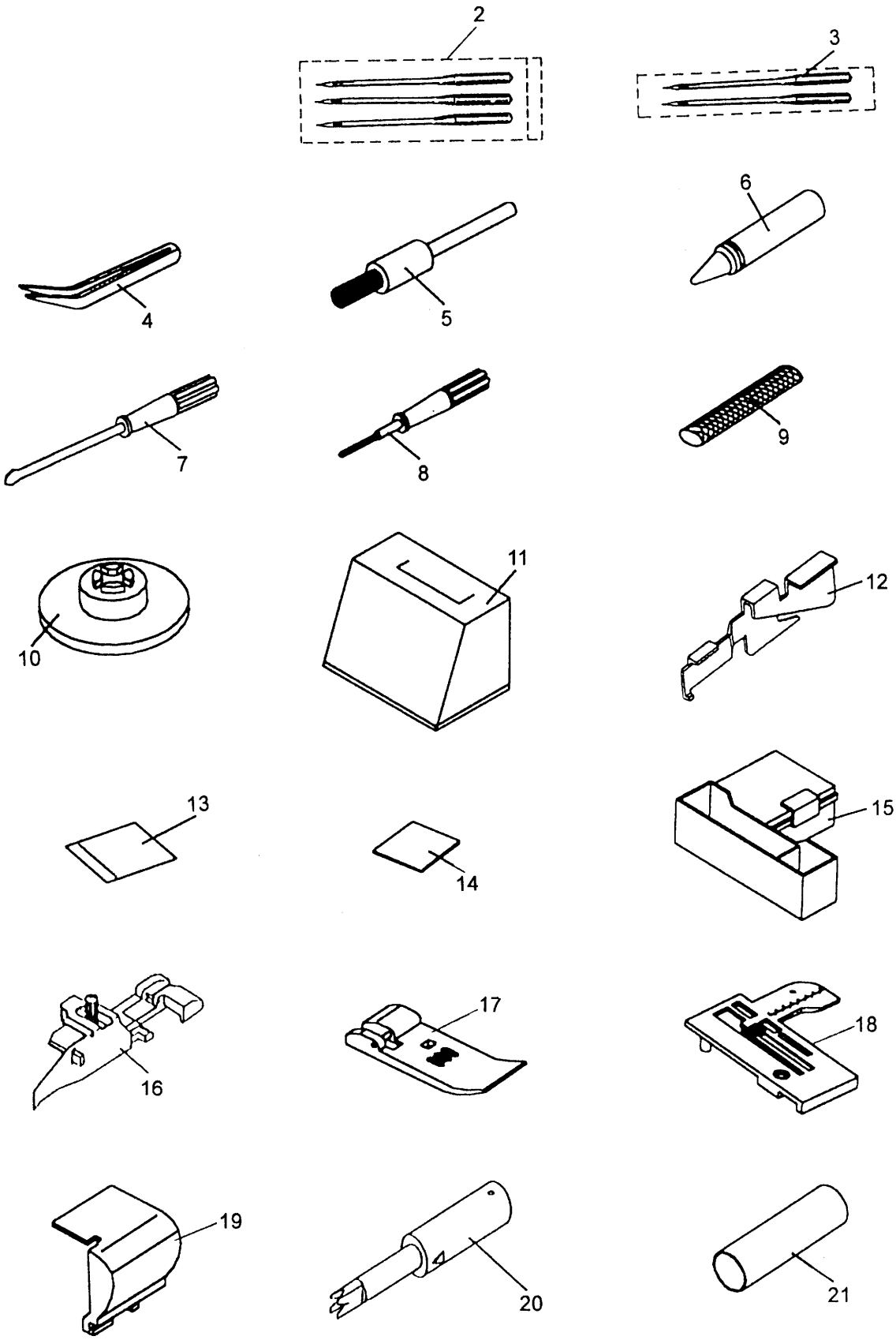
INDEX NO.	REF. NO.	PART NAME
1	2144518-201	Electric board (220-240 Volt)
	2122508-201	Electric board (120 volt)
2	2141008-811	Electric board case
3	11203	Screw
4	10955	Screw
5	2144508-860	Connecting electric cord
6	950008-848	Cord binder
7	412 31 41-01	Foot control
8	412 15 78-01	Cord device, stand
	412 15 79-01	Cord USA, Canada
	412 15 80-02	Cord device, UK
	412 15 81-01	Cord device, Australia
9	150008-142	Cord guide plate
10	416 11 01-01	Set screw
11	2144508-243	Feed stepping motor ass'y
12	10940	Screw
13	2150008-223	Feed worm gear ass'y
14	10135	Screw
15	2150008-211	Feed stepping motor bracket
16	10964	Screw
17	2144508-244	Differential stepping motor ass'y
18	2150008-212	Differential stepping motor bracket
19	850004-730	Adjusting screw
20	30403	Adjusting nut
21	10961	Screw
22	2144508-190	Presser foot lifting switch ass'y
23	2150008-191	Presser foot lifter holding plate
24	60138	Washer
25	11927	screw
26	416 11 02-01	Screw
27	2150008-263	Upper stop sensor bracket
28	2144508-260	Upper stop sensor ass'y
29	11203	Screw
30	2144508-180	Front cover switch ass'y
31	10981	Screw
32	2141008-882	Switch button spring
33	2141008-883	Switch button
34	2150008-827	Switch cover
35	10985	Screw
37	412 31 44-01	Cable, standard
	412 31 44-02	Cable USA, Can
38	412 15 98-01	Spring
39	412 31 89-01	Control unit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INDEX NO.	REF. NO.	PART NAME
2	411 31 04-01	Needle 5x 80 #
	411 31 05-01	Needle 10x 80#
3	411 31 06-01	Needle 5 x 90 #
	411 31 07-01	Needle 10 x 90 #
4	2141009-191	Tweezers
5	401 55 55-01	Cleaning brush
6	1650009-842	Oiler
7	412 38 15-01	Driver L
8	411 66 89-01	Hexagon driver 1,5 mm
9	1250009-192	Net
10	1350002-198	Spool adapter
11	2141009-112	Vinyl cover
12	1651003-435	2-Thread overlock convertor - (up to #389611)
13	150012-483	Plastic bag
14	2141009-844	Needle holder
15	2141001-350	Accessory box
16	2141002-730	Multipurpose foot
17	2150012-510	Presser foot
18	2150011-501	Needle plate
19	2150001-124-651	Cutter cover -C
20	2150002-486	Thread piercer
21	412 35 56-01	Sleeve, light bulb change
	Accessories	
22	2141002-501	Pearl foot
23	2141002-502	Gathering foot
24	2141002-407	Elastic foot
25	2141002-408	Piping foot - large
26	2141012-408	Piping foot - small
	2154002-701	Clear foot
	2141001-154	Waste tray
	416 01 71-01	by pass for thread guide E
	412 53 31-01	Instruction book - Swe
	412 53 31-06	Instruction book - Dan
	412 53 31-11	Instruction book - Fin
	412 53 31-21	Instruction book - Nor
	412 53 31-26	Instruction book - Eng
	412 53 31-31	Instruction book - Fra
	412 53 31-36	Instruction book - Dutch
	412 53 31-41	Instruction book - Ita
	412 53 31-46	Instruction book - Spa
	412 53 31-51	Instruction book - Ger
	412 53 31-56	Instruction book - Russian