

GLOBAL

PARTS BOOK / INSTRUCTION BOOK
MODEL:

LP 9971-C

LP 9974-C

LP 9971 - C / LP 9974 - C

Thank you to choose .9971-C 9974-C Post-bed compound feed lockstitch sewing machine with roller.

This is a instruction book & parts list.it could help you how to use machine & how to care of machine correctly and make you convnience to look up parts.
In order to avoid trouble occurring, please read this instruction book carefully before operating machine, and please accept safety operating guides which come from special technicians or peoples of having operator experiences.

1、

1. BRIEF INTRODUCTION OF MACHINE

9971-C(Single needle)/9974-C (Double needle) Post-bed compound feed with roller clockstitch sewing machine is a high-grade product of Post-bed sewing machine. It's surface beautiful and it's stitch could be adjusted freely. before you adjusting it, the stitch could keep not changing. Maintenance-free ball & needle bearing, it works smoothly. Owing to the combination of wheel feed and driven rollerpresser, it's climbing capacity is very good. it is special suitable for sewing high-grade leather shoes, bags & gloves etc.arc leather products.

2、

2. MAIN SPECIFICATIONS

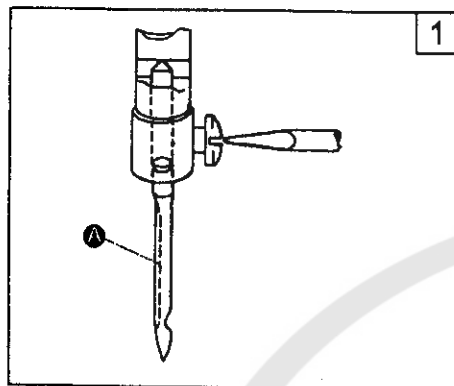
- A. Max. Sewing Speed: 2500 needle/min.
- B. Scope of Needle Stitch Adjusted: 1.3~7mm.
- C. Presser Foot Lift: 7mm.
- D. Needle Travel: 41mm.
- E. Needle System: Dp x 5, 11#~20#.
- F. Hook Assy. Type: Vertical Hook Assy.
- G. Sewing Capacity: 6mm.
- H. Lubrication Way: Lubricating By Hand.
- I. Motor: 370w(Clutch Motor Special Used For Sewing Machine).

3、

3. BE CAREFUL

- A. Before the machine leaving factory, it had already been checked carefully, but in long-distance transport, it may be vibrated strongly and then the parts loosen or wound, so before installing & using the machine, you must check it carefully, when you ascertained that there is no trouble for rotating, no colliding, no unregular resistance and no unnormal sound, you could trying it.
- B. Hook assy, feed wheel & thread tension regulator assy etc. parts of the machine is easily accumulated dust, and this would affect sewing capacity. so you must often clean it.
- C. After you cleaned the machine, please oil all the position which need lubricating use sewing-machine oil.
- D. If sewing material and thread was changed or the vulnerable parts was replaced, the clearance of machine may be needed adjusting, in this time, you had better to adjust it through special technicians or peoples of having operator experience.

4、



4. INSTALLATION OF NEEDLE(DRAWING 1)

Please use DP × 5、 11#~20# needle, the thickness of needle should be decided according to the thickness of sewing material & thread.

When you installing needle, the needle's long slot should face the operator's left side, then put the needle shank into needle hole, and take it up to the bottom of needle hole, then tighten the clamping screw.

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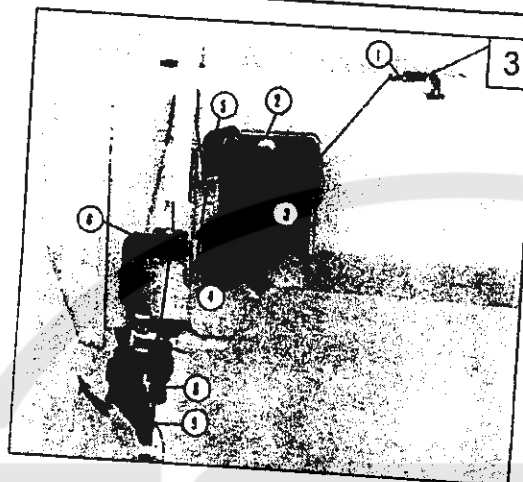


5. THE METHOD OF PUTTING BOBBIN & BOBBIN CASE IN HOOK ASSY.

(Drawing 2)

- A. Open post cap assy(A).
- B. Lift up bobbin lever(B).
- C. Lead bobbin thread out about 50mm, then put the end of thread in slot of bobbin case.
- D. Put the bobbin case with bobbin in hook assy.
- E. Put down bobbin lever(B).
- F. Leading needle thread by left hand, rotating driving wheel by right hand, when the bobbin thread is pulled out, then put the bobbin thread on a side.
- G. Closed the post cap assy(A).

6、

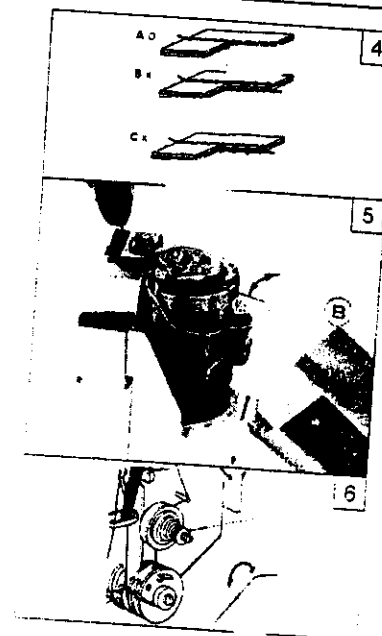


6. THE WAY OF THREADING. (Drawing 3)

When threading the needle thread, the needle bar should be the position of highest point. lift up presser feet, open the roller presser assy (pull it down, then push it along with the direction of arrow). then lead the end of thread from spool & threading in order.

- Leading thread through two holes of 4 hole thread retainer(1).
- Leading thread from right to left through the right threading hole of tensioning adjusting-plate, then leading it up and clamping it between small tension discs(2).
- Go round dividing thread pin downward, pass through tension discs(3).
- Go round thread tension plate assy(4) from right to left.
- Leading thread up and pass through upper thread guide(5), then pass through the hole of thread take up lever from right to left.
- Downward through middle thread guide(6), under thread guide(7) & needle bar's hole(8), pass through the hole of needle(9), and leading thread out about 100mm for using.

7、



7. ADJUSTING OF THREAD TENSION (Drawing 4、 5、 6)

The normal stitch of this sewing machine should be as same as drawing A showing. If the stitch is unnormal, it may appear thread breaking or sewing material wrinkling etc. In this time, you should adjust the tension of needle thread & bobbin thread until the stitch is good.

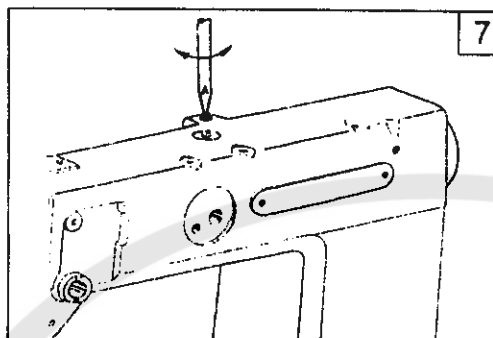
A. If the stitch is as same as drawing B showing, it means that the tension of needle thread is too high or the tension of bobbin thread is too low. You should turn tension nut clockwise so that reduce the pressure of needle thread. Or tighten the adjusting screw(B) using small screwdriver to increase the tension of bobbin thread.

B. Showing as drawing C, If the tension of needle thread is too small & the tension of bobbin thread is too big. You should turn tension nut clockwise to increase the pressure of needle thread. Or loosen the adjusting-screw(B) using small screwdriver to reduce the tension of bobbin thread.

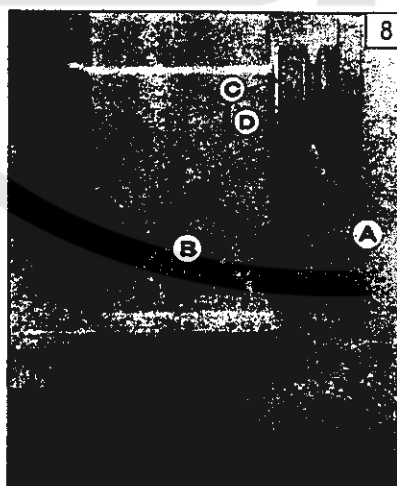
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8. REGULATING THE PRESSURE OF PRESSER FEET (Drawing 7)

The pressure of presser feet should be regulated according to the thickness of sewing material. If the sewing material is more thicker, the pressure of presser feet should be increased, in this time, you may turn round regulating-screw on the back of head clockwise as drawing showing. On contrary, reduce the pressure.



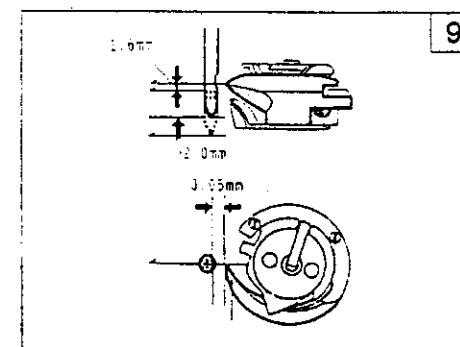
9、



9. REGULATING STITCH LENGTH (Drawing 8)

- Press down the stitch length regulating-button (B) using forefinger of left hand.
- Turn round the pulley blance wheel(A) slowly by right hand.
- When the stitch length regulating-button(B) was pressed down, you may regulate the stitch length.
- The figure of stitch length is shown on the pulley blance wheel(A), the figure is more bigger then the stitch length is more bigger. Turning round the pulley blance wheel(A) until the figure of stitch length you need aim at datum point(C), then loosen the stitch Length regulating-button(B) and it return back to the to the original position. Then the stitch length is regulated good.

10、



10. REGULATING THE GAP BETWEEN HOOK ASSY AND NEEDLE (Drawing 9)

We suggest that the gap between hook assy and needle should be regulated by special technicians or peoples having operating experiences.

- Turning round the pulley blance wheel by hand, when the needle go up 2mm from the lowest position, the position of needle hole should be lower 1.6mm than hook top.
- Turning round the pulley blance wheel by hand, when the needle go up 2mm from the lowest position, hook top should aim at needle slot and the gap is 0.05mm.

TROUBLE, CAUSE & REMEDY

Trouble	Cause	Remedy
Thred Breaking	(1)The quality of thread is pool. (2)Caused by needle Needle curving Needle installing wrong Needle is too small(compared with thread) (3)The tension of needle thread is too big.	Replace thread which is very good.if the thickness of thread is not even or there is some joint in thread, do not use it. Replace a new needle. Re-installing needle. Replace a needle which fit the thickness of thread. Looseing threading nut.
Stitch Dropping	(1)Reasons caused by needle Needle curving Needle not fit the thickness of thread. (2)Reasons caused by wrongly installing needle When inserting needle, the depth of it is not enough. When inserting needle, the needle is inclined.	Replace needle. Replace a needle which fit the thickness of thread. Insert needle to the fixed-position plane of needle bar. Re-installing needle.
浮线 Thread Floating	(1)Tension of needle thread is too small (2)Take-up spring is too loosen. (3)Tension of bobbin thread is too big.	Turn round tension adjusting nut colockwise to regulate needle thread. Adjusting the tension of take-up spring, when sewing thicker material(stitch length is long), the tension of take-up spring should be increased. Tighten the spring plate screw of hook case.

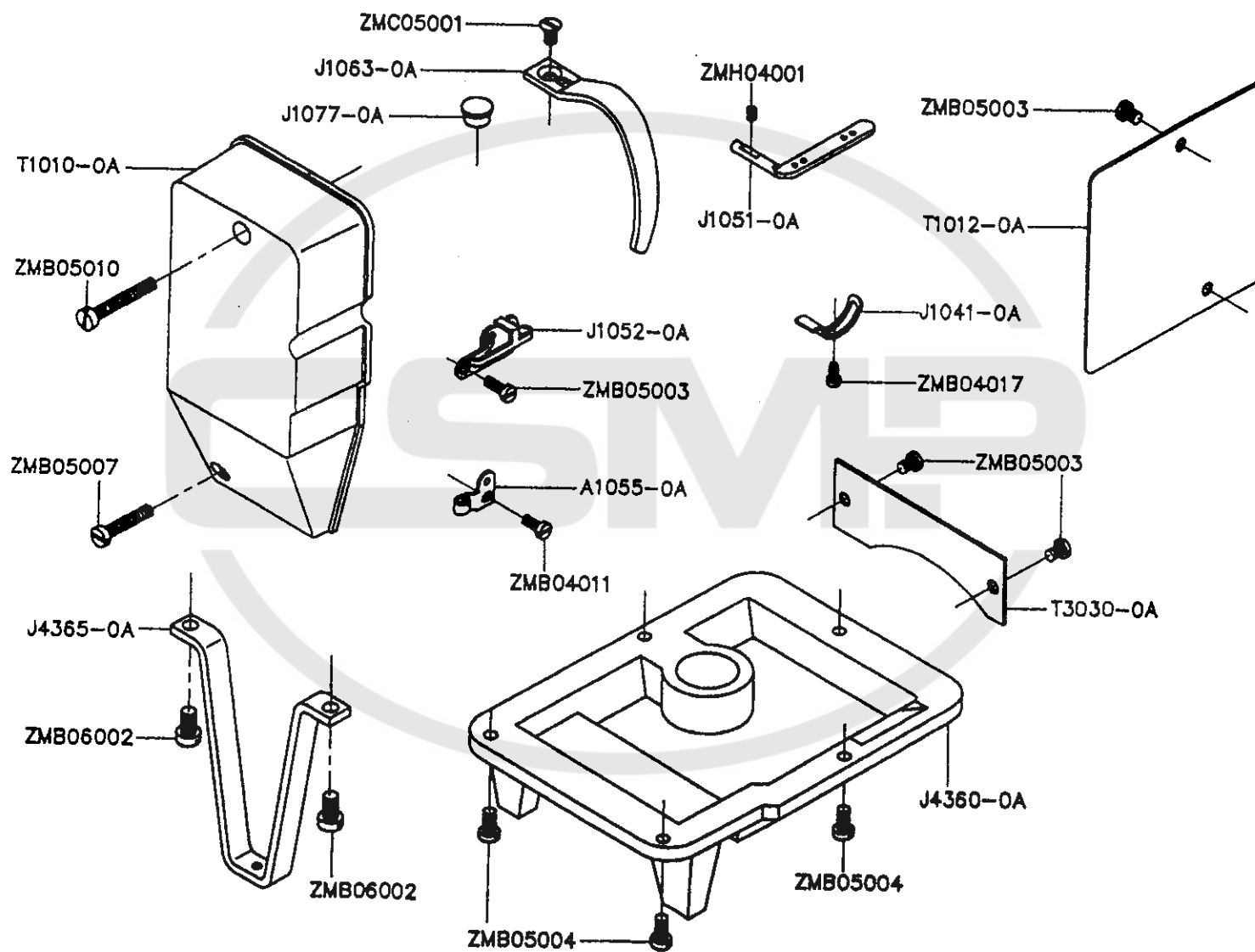
Model

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A.

ARM BED AND IT'S ACCESSORIES



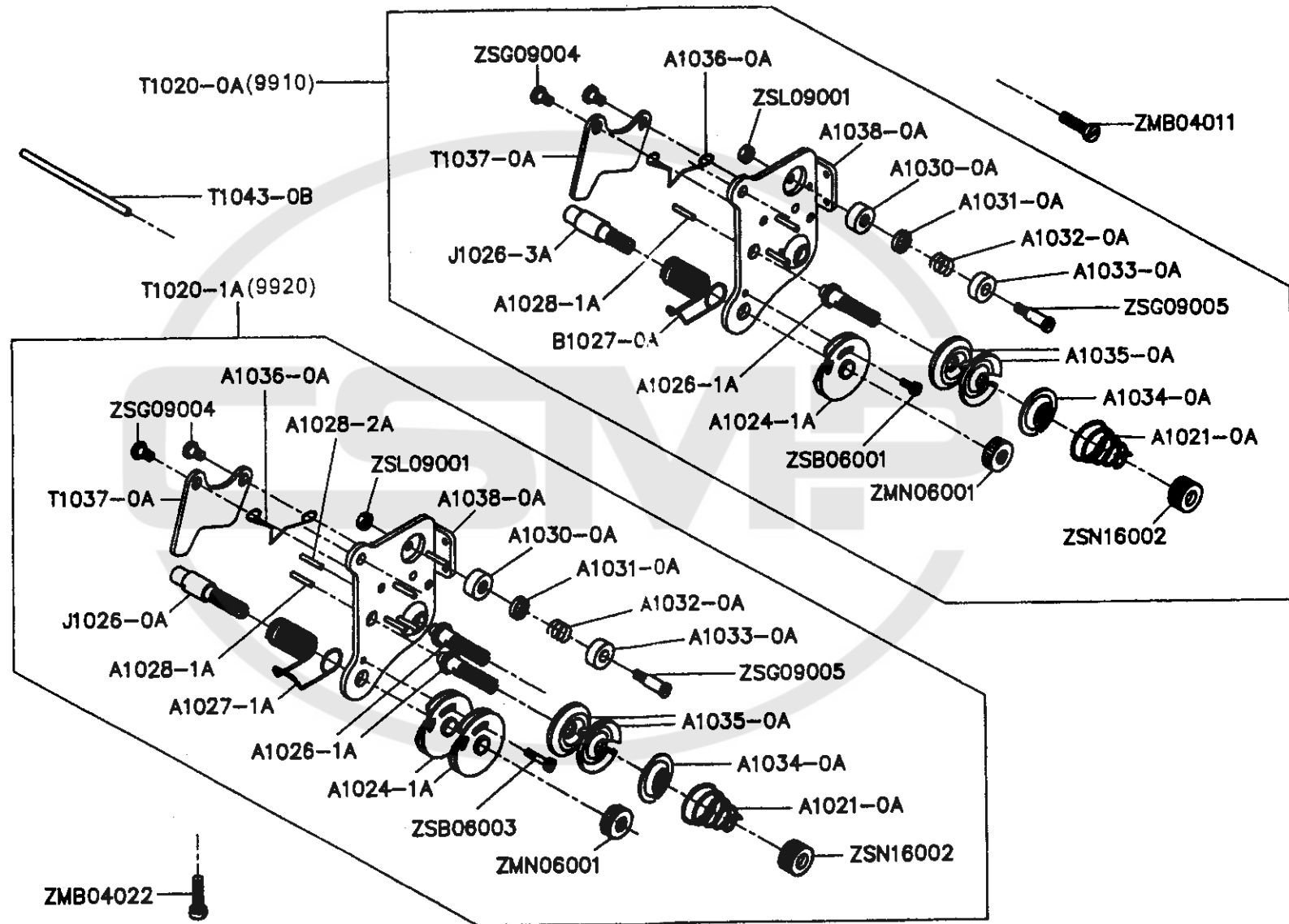
A.

ARM BED AND IT'S ACCESSORIES

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
A1055-0A	Thread Guide Wire	1	1	
J1041-0A	Stopper	1	1	
J1051-0A	4 Hole Thread Retainer	1	1	
J1052-0A	Thread Guide Wire	1	1	
J1063-0A	Thread Take-up Cover	1	1	
J1077-0A	Needle Bar Upper Bushing Cap	1	1	
J4360-0A	Bottom Cover	1	1	
J4365-0A	Bracket	1	1	
T1010-0A	Face Plate	1	1	
T1012-0A	Arm Side Cover	1	1	
T3030-0A	Arm Side Cover	1	1	
ZMB04011	Screw (M4×0.7×8)	1	1	
ZMB04017	Screw (M4×0.7×7)	1	1	
ZMB05003	Screw (M5×0.8×7)	5	5	
ZMB05004	Screw (M5×0.8×10)	5	5	
ZMB05007	Screw (M5×0.8×25)	1	1	
ZMB05010	Screw (M5×0.8×35)	1	1	
ZMB06002	Screw (M6×1.0×10)	2	2	
ZMC05001	Screw (M5×0.8×8)	1	1	
ZMH04001	Screw (M4×0.7×4)	1	1	

B.

UPPER THREAD TENSION REGULATOR MECHANISM



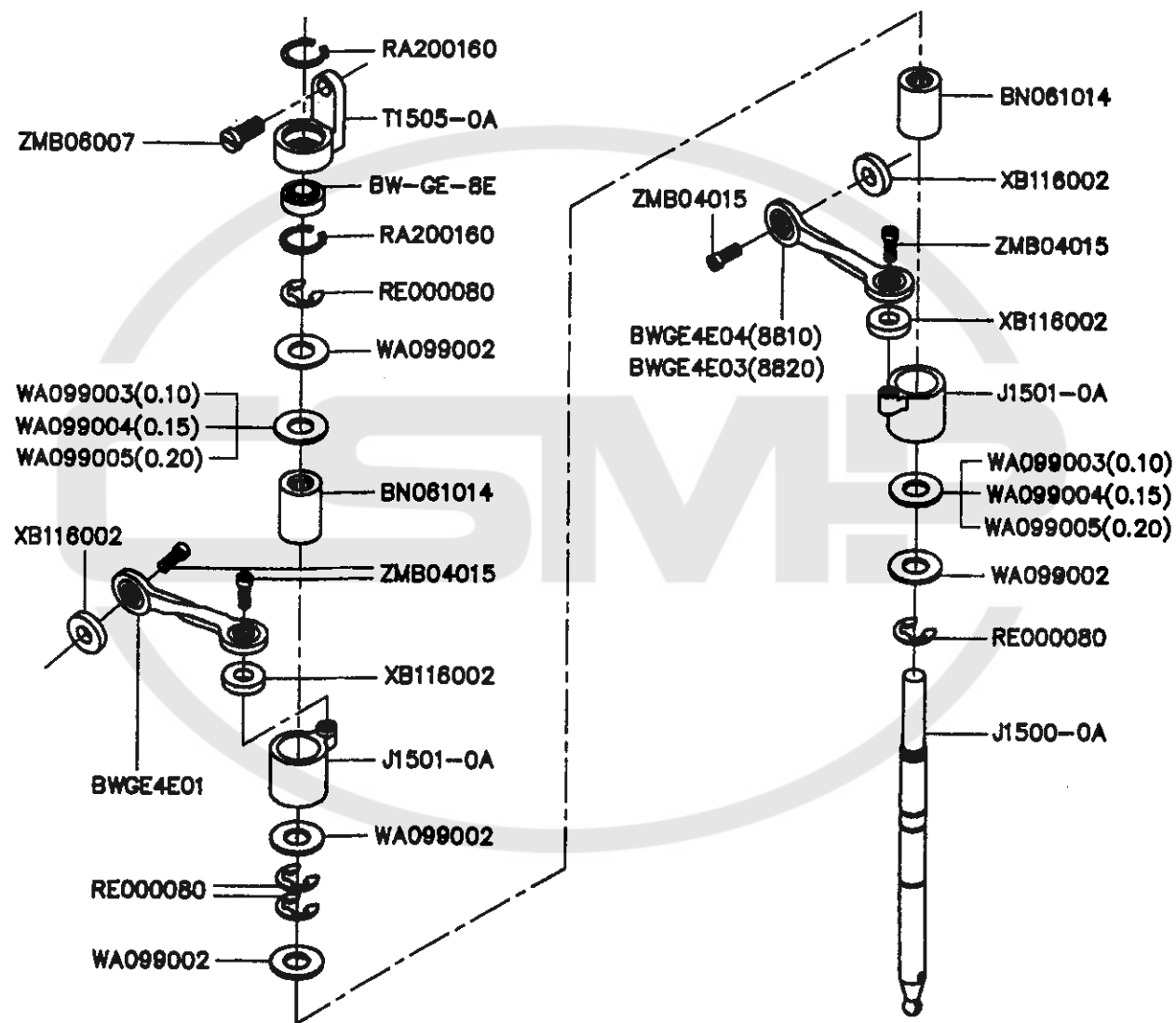
B.

UPPER THREAD TENSION REGULATOR MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
A1021-0A	--- Tension Spring ---	1	2	
A1024-1A	--- Spring Guide Assy ---	1	2	
A1026-1A	--- Thread Tension Stud ---	1	2	
A1027-1A	--- Thread Take-up Spring ---	0	1	
A1028-1A	--- Tension Releasing Pin ---	1	1	
A1028-2A	--- Tension Releasing Pin ---	0	1	
A1030-0A	--- Thread Guide Bracket ---	1	2	
A1031-0A	--- Thread Guide Disc ---	1	2	
A1032-0A	--- Thread Guide Spring ---	1	2	
A1033-0A	--- Thread Guide Cap ---	1	2	
A1034-0A	--- Tension Disc Washer ---	1	2	
A1035-0A	--- Tension Disc ---	1	2	
A1036-0A	--- Tension Release Spring ---	2	4	
A1038-0A	--- Upper Thread Tension Plate ---	1	1	
B1027-0A	--- Thread Take-up Spring ---	1	1	
J1026-0A	--- Thread Tension Stud ---	1	0	
J1026-3A	--- Thread Tension Stud ---	0	1	
T1020-0A	--- Thread Tension Regulator Assy. ---	1	0	
T1020-1A	--- Thread Tension Regulator Assy. ---	1	0	
T1037-0A	--- Tension Release Plate ---	0	1	
T1043-0B	--- Tension Releasing Pin ---	1	1	
ZMB04011	--- Screw (M4×0.7×8) ---	1	1	
ZMB04022	--- Screw (M4×0.7×15) ---	1	1	
ZMN06001	--- Nut (M4×0.7×13) ---	1	1	
ZSB06001	--- Screw (3/32-56×6.3) ---	1	1	
ZSB06003	--- Screw (3/32-56×12) ---	1	0	
ZSG09004	--- Screw (9/64-40) ---	0	1	
ZSG09005	--- Screw (9/64-40) ---	2	2	
ZSL09001	--- Nut (9/4-40×3) ---	1	2	
ZSN16002	--- Nut (1/4-40×12) ---	2	2	
		1	2	

C.

SINGLE-DIRECTION BEARING SHAFT MECHANISM



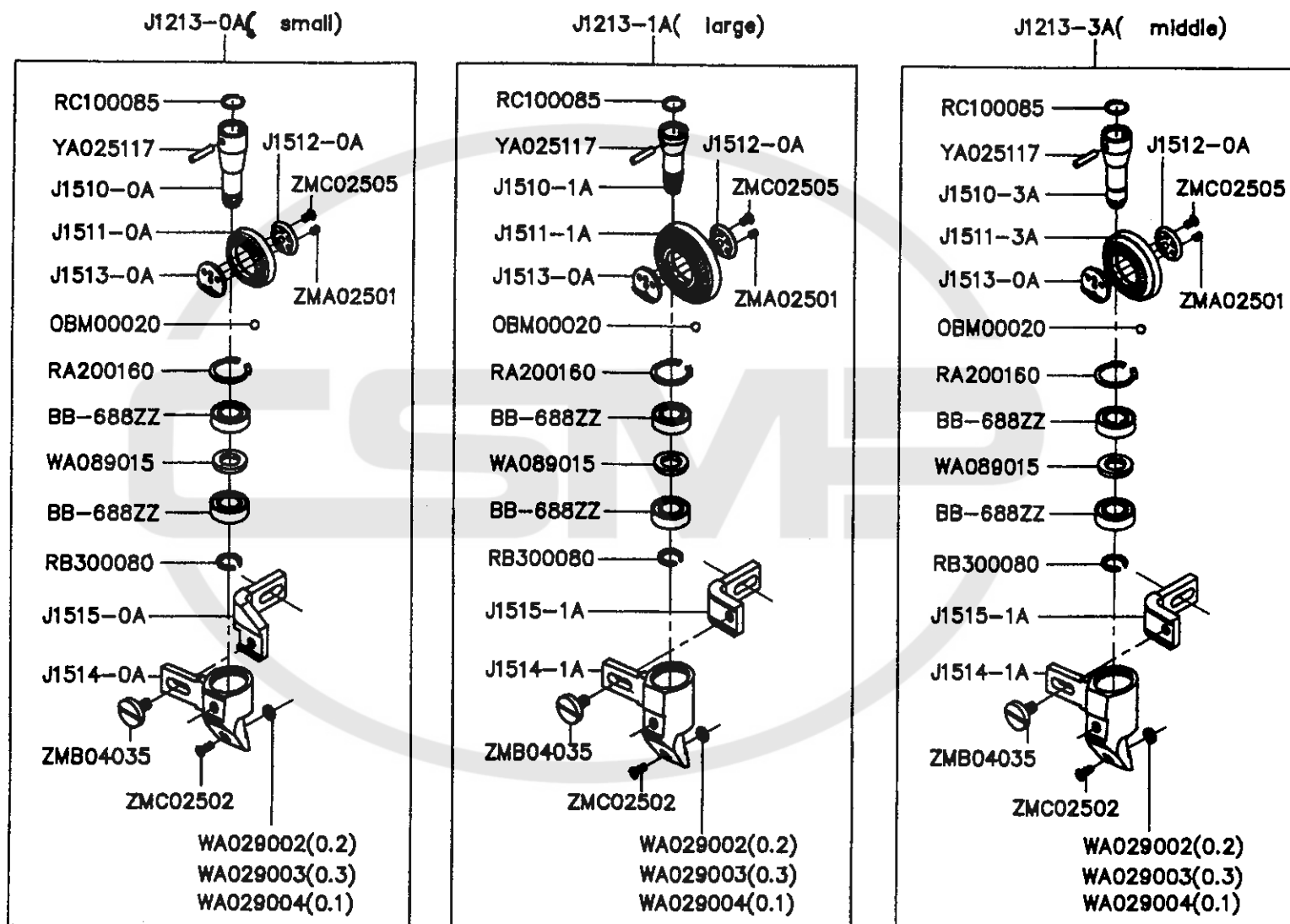
C.

SINGLE-DIRECTION BEARING SHAFT MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BN061014	--- Needle Bearing ---	2	2	
BW-GE-8E	-- Bearing --	1	1	
BWGE4E01	--- Link ---	1	1	
BWGE4E03	--- Link ---	0	1	
BWGE4E04	--- Link ---	1	0	
J1500-0A	--- Shaft ---	1	1	
J1501-0A	--- Free-Wheeling ---	2	2	
RA200160	-- Retaining Ring --	2	2	
RE000080	--- E-Ring ---	4	4	
T1505-0A	--- Bearing Bracket ---	1	1	
WA099002	-- Washer --	4	4	
WA099003	--- Washer ---	2	2	
WA99004	--- Washer ---	2	2	
WA099005	--- Washer ---	2	2	
XB116002	--- Oil Felt ---	4	4	
ZMB04015	--- Screw (M4×0.7×10) ---	4	4	
ZMB06007	--- Screw (M6×1.0×13) ---	1	1	

D.

ROLLER PRESSER FOOT MECHANISM



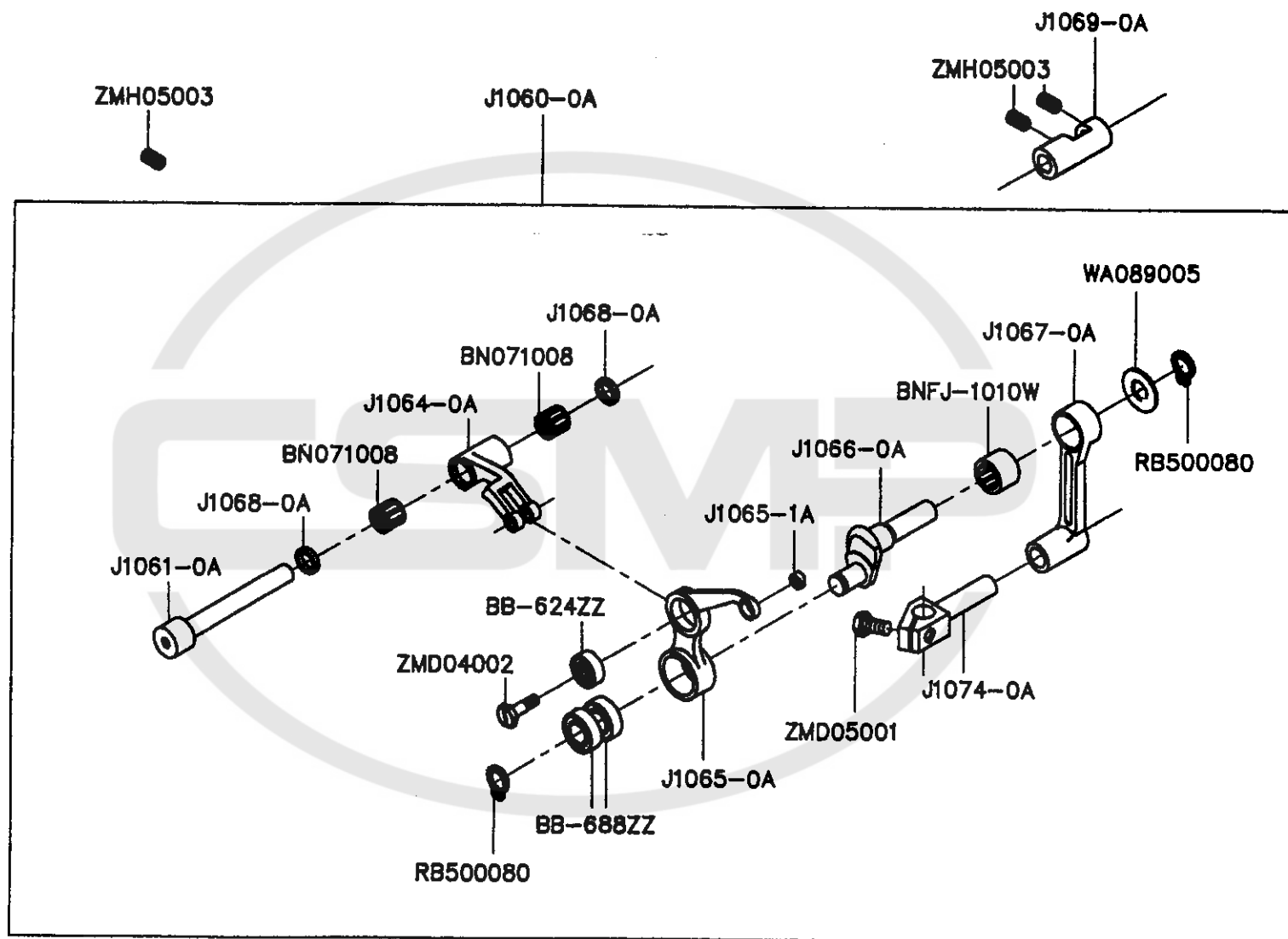
D.

ROLLER PRESSER FOOT MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB-688ZZ	-- Ball Bearing -----	2	2	
J1213-0A	-- Roller Presser Assy. (Small) -----	1	1	
J1213-1A	-- Roller Presser Assy. (Middle) -----	1	1	
J1213-3A	-- Roller Presser Assy. (Large) -----	1	1	
J1510-0A	-- Gear -----	1	1	
J1510-1A	-- Gear -----	1	1	
J1510-3A	-- Gear -----	1	1	
J1511-0A	-- Presser -----	1	1	
J1511-1A	-- Presser -----	1	1	
J1511-3A	-- Presser -----	1	1	
J1512-0A	-- Presser Shaft Seat (Front) -----	1	1	
J1513-0A	-- Presser Shaft Seat (Back) -----	1	1	
J1514-0A	-- Roller Presser Bracket -----	1	1	
J1514-1A	-- Roller Presser Bracket -----	1	1	
J1515-0A	-- Guide Seat -----	1	1	
J1515-1A	-- Guide Seat -----	1	1	
OBM00020	-- Ball -----	24	24	
RA200160	-- Retaining Ring -----	1	1	
RB300080	-- Retaining Ring -----	1	1	
RC100085	-- Spring Washer -----	1	1	
WA029002	-- Washer -----	1	1	
WA029003	-- Washer -----	1	1	
WA029004	-- Washer -----	1	1	
WA089015	-- Washer -----	1	1	
YA025117	-- Pin -----	1	1	
ZMA02501	-- Screw (M2.5×0.45×2) -----	3	3	
ZMB04035	-- Screw (M4×0.7×8) -----	1	1	
ZMC02502	-- Screw (M2.5×0.45×6) -----	1	1	
ZMC02505	-- Screw (M2.5×0.45×4.8) -----	3	3	

E.

TAKE-UP LEVER MECHANISM



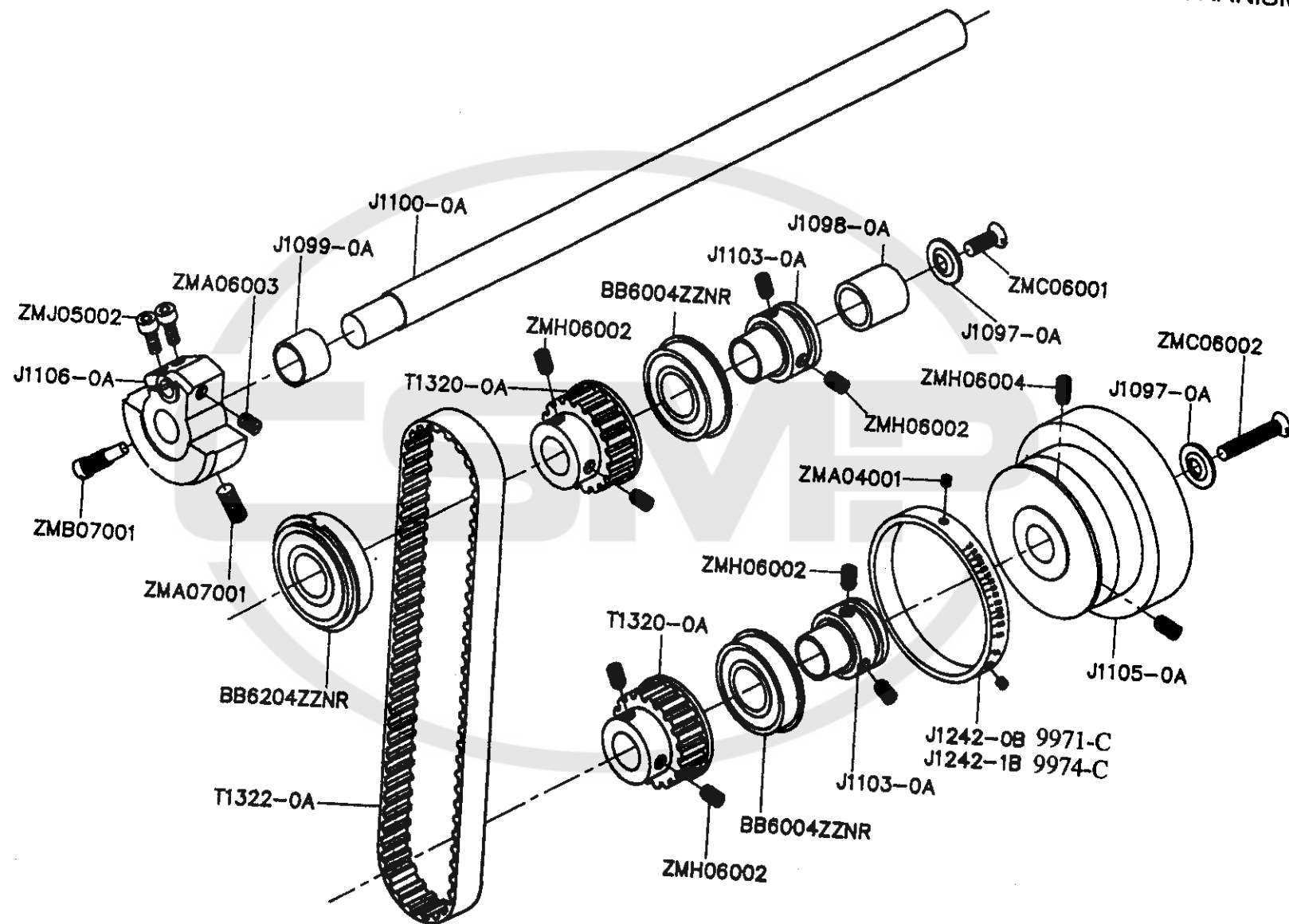
E.

TAKE-UP LEVER MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB-624ZZ	--- Ball Bearing -----	1	1	
BB-688ZZ	--- Ball Bearing -----	2	2	
BN071008	--- Needle Bearing -----	2	2	
BNFJ-1010W	--- Needle Bearing -----	1	1	
J1060-0A	--- Thread Take-up Assy. -----	1	1	
J1061-0A	--- Take-up Lever Support Stud -----	1	1	
J1064-0A	--- Take-up Frame -----	1	1	
J1065-0A	--- Take-up Lever -----	1	1	
J1065-1A	--- Bushing -----	1	1	
J1066-0A	--- Take-up Crank Pin -----	1	1	
J1067-0A	--- Needle Bar Connecting Crank Rod -----	1	1	
J1068-0A	--- Washer -----	2	2	
J1069-0A	--- Bushing -----	1	1	
J1074-0A	--- Needle Bar Connecting Stud -----	1	1	
RB500080	--- Retaining Ring -----	2	2	
WA089005	--- Washer -----	1	1	
ZMD04002	--- Screw (M4×0.7×13.5) -----	1	1	
ZMD05001	--- Screw (M5×0.8×12.5) -----	1	1	
ZMH05003	--- Screw (M5×0.8×8) -----	3	3	

F.

UPPER SHAFT AND BALANCE WHEEL MECHANISM



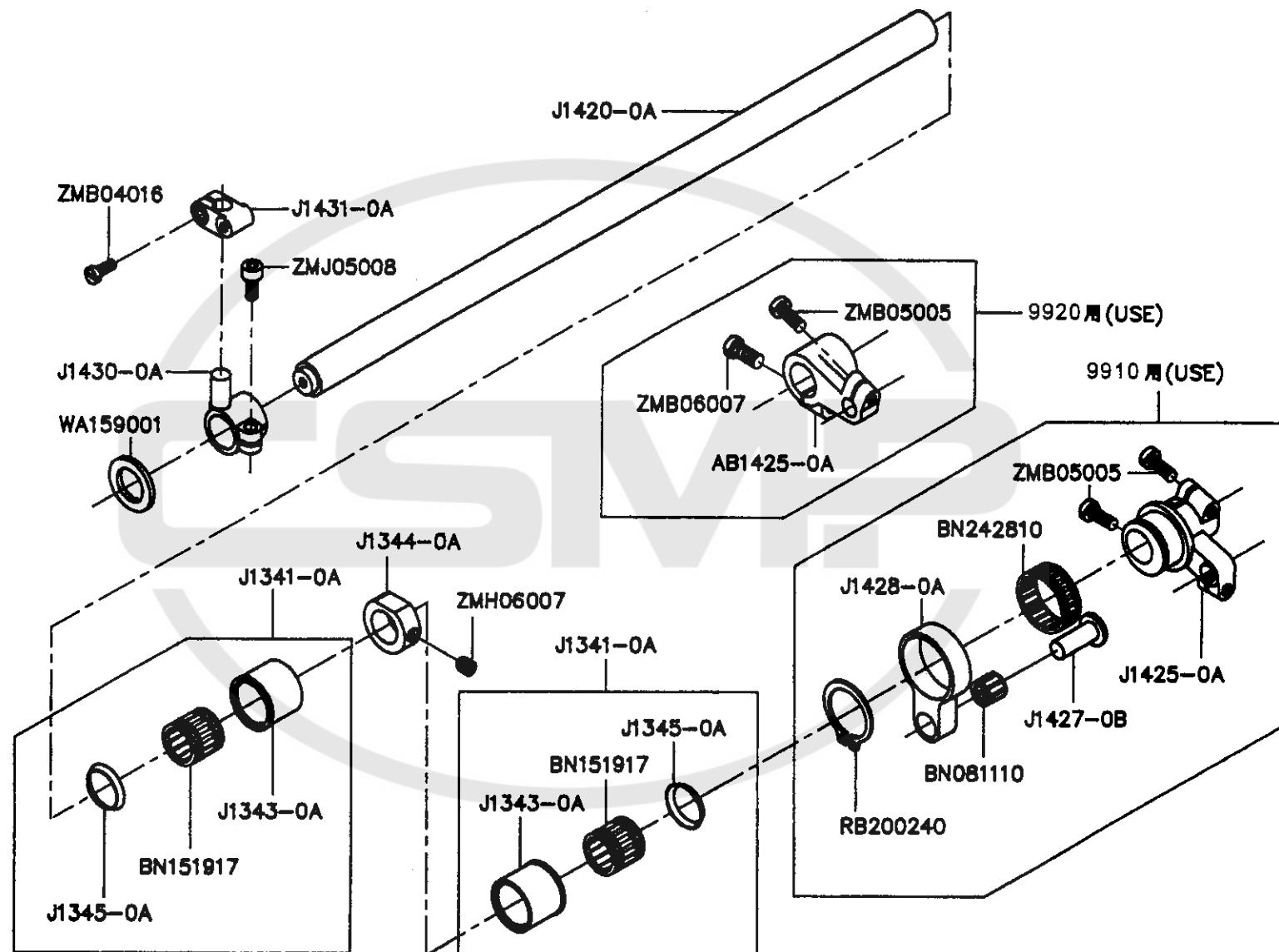
F.

UPPER SHAFT AND BALANCE WHEEL MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB6004ZZNR	--- Ball Bearing -----	2	2	
BB6204ZZNR	--- Ball Bearing -----	1	1	
J1097-0A	-- Washer -----	2	2	
J1098-0A	--- Bushing -----	1	1	
J1099-0A	--- Thrust Ring -----	1	1	
J1100-0A	-- Upper Shaft -----	1	1	
J1103-0A	--- Upper Shaft Bushing -----	2	2	
J1105-0A	-- Pulley Blance Wheel -----	1	1	
J1106-0A	-- Crank Cam -----	1	1	
J1242-0B	--- Feed Regulator Scale -----	1	0	
J1242-1B	--- Feed Regulator Scale -----	0	1	
T1320-0A	--- Timing Belt Wheel -----	2	2	
T1322-0A	--- Timing Belt -----	1	1	
ZMA04001	-- Screw (M4×0.7×3) -----	2	2	
ZMA06003	-- Screw (M6×0.75×7) -----	1	1	
ZMA07001	-- Screw (M7×1.0×16.5) -----	1	1	
ZMB07001	-- Screw (M7×1.0×22) -----	1	1	
ZMC06001	-- Screw (M6×1.0×16) -----	1	1	
ZMC06002	-- Screw (M6×1.0×35) -----	1	1	
ZMH06002	-- Screw (M6×0.75×8) -----	8	8	
ZMH06004	-- Screw (M6×0.75×10) -----	2	2	
ZMJ05002	-- Screw (M5×0.8×12) -----	2	2	

G.

UPPER SIDE SHAFT MECHANISM



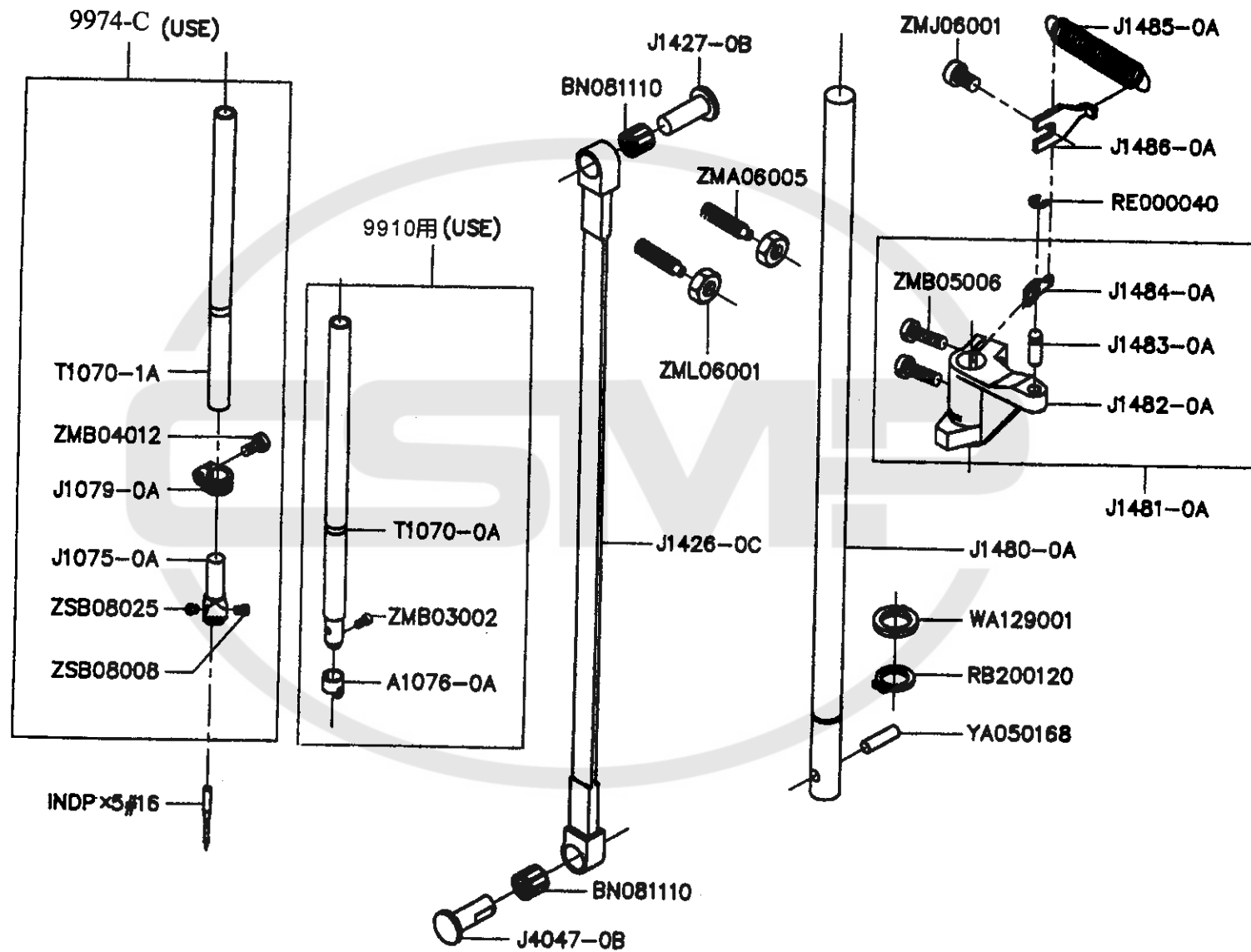
G.

UPPER SIDE SHAFT MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
AB1425-0A	Supporting Arm	0	1	
BN081110	Needle Bearing	1	0	
BN151917	Needle Bearing	2	2	
BN242810	Needle Bearing	1	0	
J1341-0A	Bushing	2	2	
J1343-0A	Bushing	2	2	
J1344-0A	Collar	1	1	
J1345-0A	Washer	2	2	
J1420-0A	Upper Side Shaft	1	1	
J1425-0A	Crank With Eccentric	1	0	
J1427-0B	Pin	1	0	
J1428-0A	Eccentric With Rod	1	0	
J1430-0A	Crank	1	1	
J1431-0A	Clamp	1	1	
RB200240	Retaining Ring	1	0	
WA159001	Washer	1	1	
ZMB04016	Screw (M4×0.7×10)	1	1	
ZMB05005	Screw (M5×0.8×13)	2	1	
ZMB06007	Screw (M6×1.0×13)	0	1	
ZMH06007	Screw (M6×0.75×5)	1	1	
ZMJ05008	Screw (M5×0.8×10)	1	1	

H.

NEEDLE BAR MECHANISM



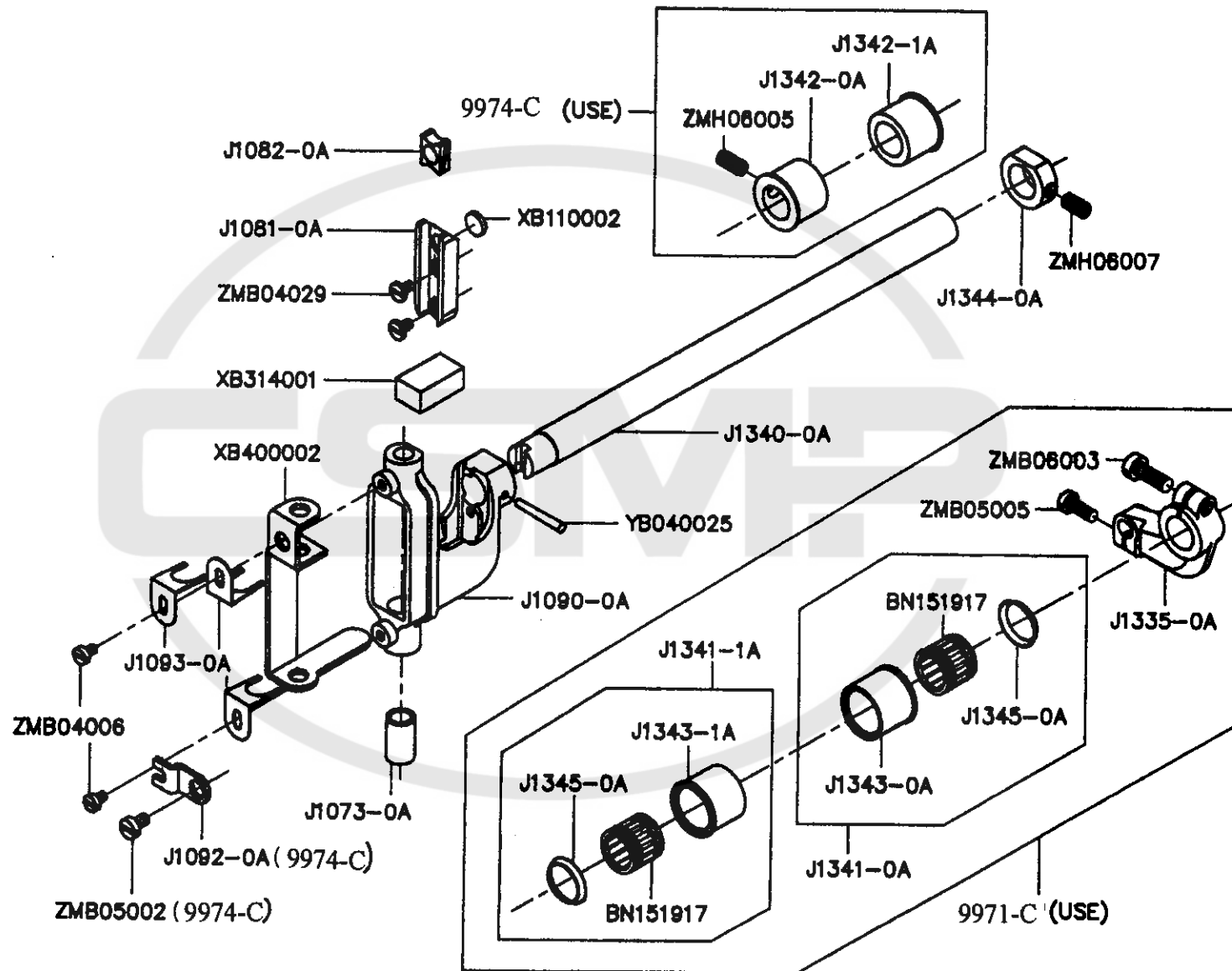
H.

NEEDLE BAR MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
A1076-0A	--- Thread Guide -----	1	0	
BN081110	--- Needle Bearing -----	2	2	
INDP×5#16	--- Needle -----	1	2	
J1075-0A	--- Needle Holder -----	0	1	
J1079-0A	--- Ring Clamp -----	0	1	
J1426-0C	--- Connecting Rod -----	1	1	
J1427-0B	--- Pin -----	1	1	
J1480-0A	--- Shaft -----	1	1	
J1481-0A	--- Crank Assy. -----	1	1	
J1482-0A	--- Crank -----	1	1	
J1483-0A	--- Pin -----	1	1	
J1484-0A	--- Bracket -----	1	1	
J1485-0A	--- Spring -----	1	1	
J1486-0A	--- Spring Plate -----	1	1	
J4047-0B	--- Pin -----	1	1	
RB200120	--- Retaining Ring -----	1	1	
RE000040	--- E-Ring -----	1	1	
T1070-0A	--- Needle Bar -----	1	0	
T1070-1A	--- Needle Bar -----	0	1	
WA129001	--- Washer -----	1	1	
YA050168	--- Pin -----	1	1	
ZMA06005	--- Screw (M6×1.0×25) -----	2	2	
ZMB03002	--- Screw (M3×0.5×4) -----	1	0	
ZMB04012	--- Screw (M4×0.7×8) -----	0	1	
ZMB05006	--- Screw (M5×0.8×16) -----	2	2	
ZMJ06001	--- Screw (M6×1.0×8) -----	1	1	
ZML06001	--- Nut (M6×1.0×4.8) -----	2	2	
ZSB08008	--- Screw (1/8-44×4) -----	0	1	
ZSB08025	--- Screw (1/8-44×3) -----	0	1	

I.

NEEDLE BAR ROCKING MECHANISM

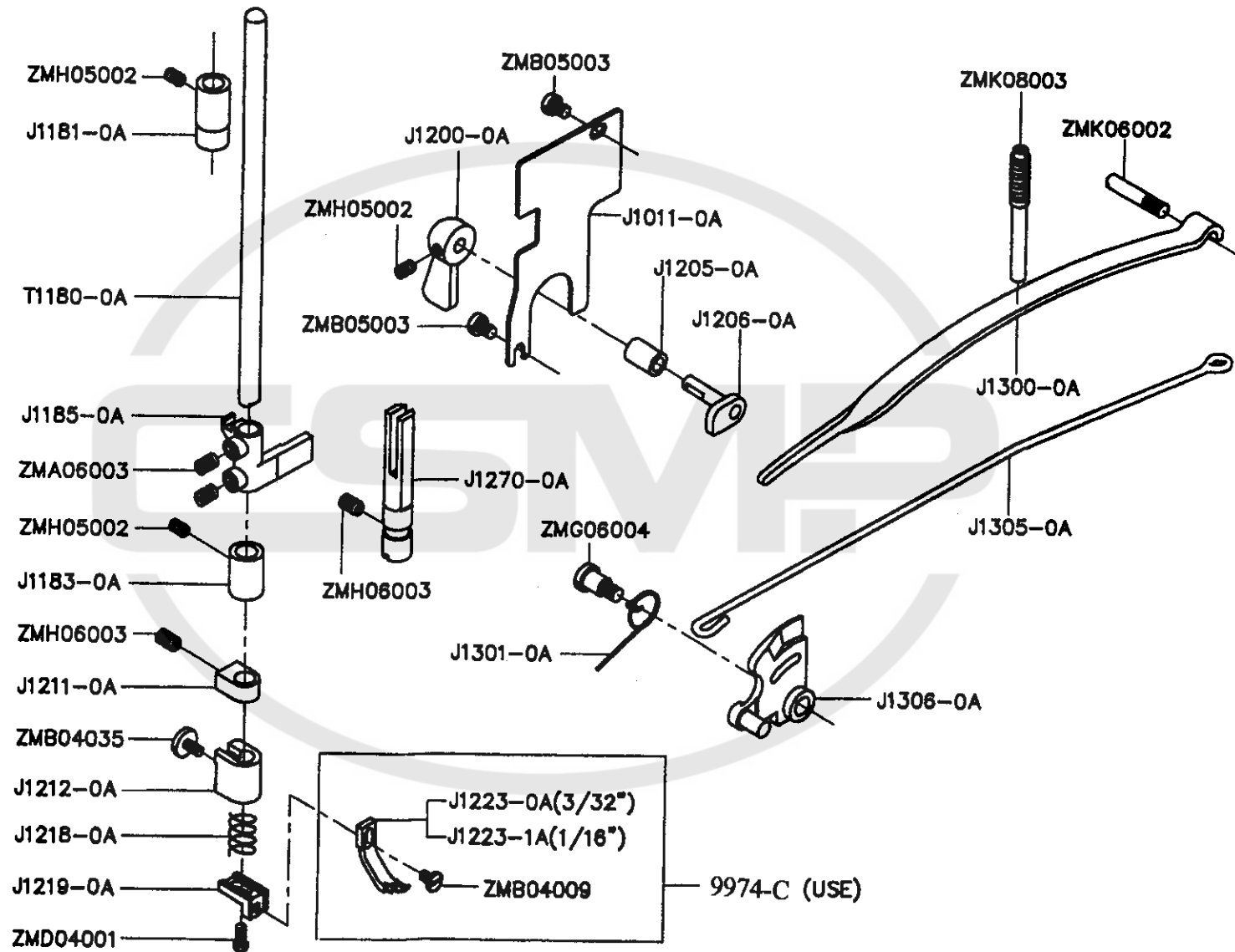


NEEDLE BAR ROCKING MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BN15197	--- Needle Bearing -----	2	0	
J1073-0A	--- Needle Bar Bushing -----	1	1	
J1081-0A	-- Needle Bar Connecting Link Guide -----	1	1	
J1082-0A	-- Needle Bar Guide Slide Block -----	1	1	
J1090-0A	--- Needle Bar Support Frame -----	1	1	
J1092-0A	-- Needle Bar Support Frame Retainer -----	0	1	
J1093-0A	--- Holder -----	3	3	
J1335-0A	--- Crank -----	1	0	
J1340-0A	--- Needle Bar Shaft -----	1	1	
J1341-0A	-- Bushing -----	1	0	
J1341-1A	-- Bushing -----	1	0	
J1342-0A	-- Bushing -----	0	1	
J1342-1A	-- Bushing -----	0	1	
J1343-0A	-- Bushing -----	1	0	
J1343-1A	-- Bushing -----	1	0	
J1344-0A	-- Collar -----	1	1	
J1345-0A	--- Washer -----	2	0	
XB110002	-- Oil Felt -----	1	1	
XB314001	-- Oil Felt -----	1	1	
XB400002	-- Oil Felt -----	1	1	
YB040025	-- Taper Pin -----	1	1	
ZMB04006	-- Screw (M4×0.7×4.5) -----	2	2	
ZMB04029	-- Screw (M4×0.7×6) -----	2	2	
ZMB05002	-- Screw (M5×0.8×6) -----	0	1	
ZMB05005	-- Screw (M5×0.8×13) -----	1	0	
ZMB06003	-- Screw (M6×1.0×16) -----	1	0	
ZMH06005	-- Screw (M6×1.0×12) -----	0	1	
ZMH06007	-- Screw (M6×0.75×5) -----	1	1	

J.

PRESSER FOOT BAR MECHANISM



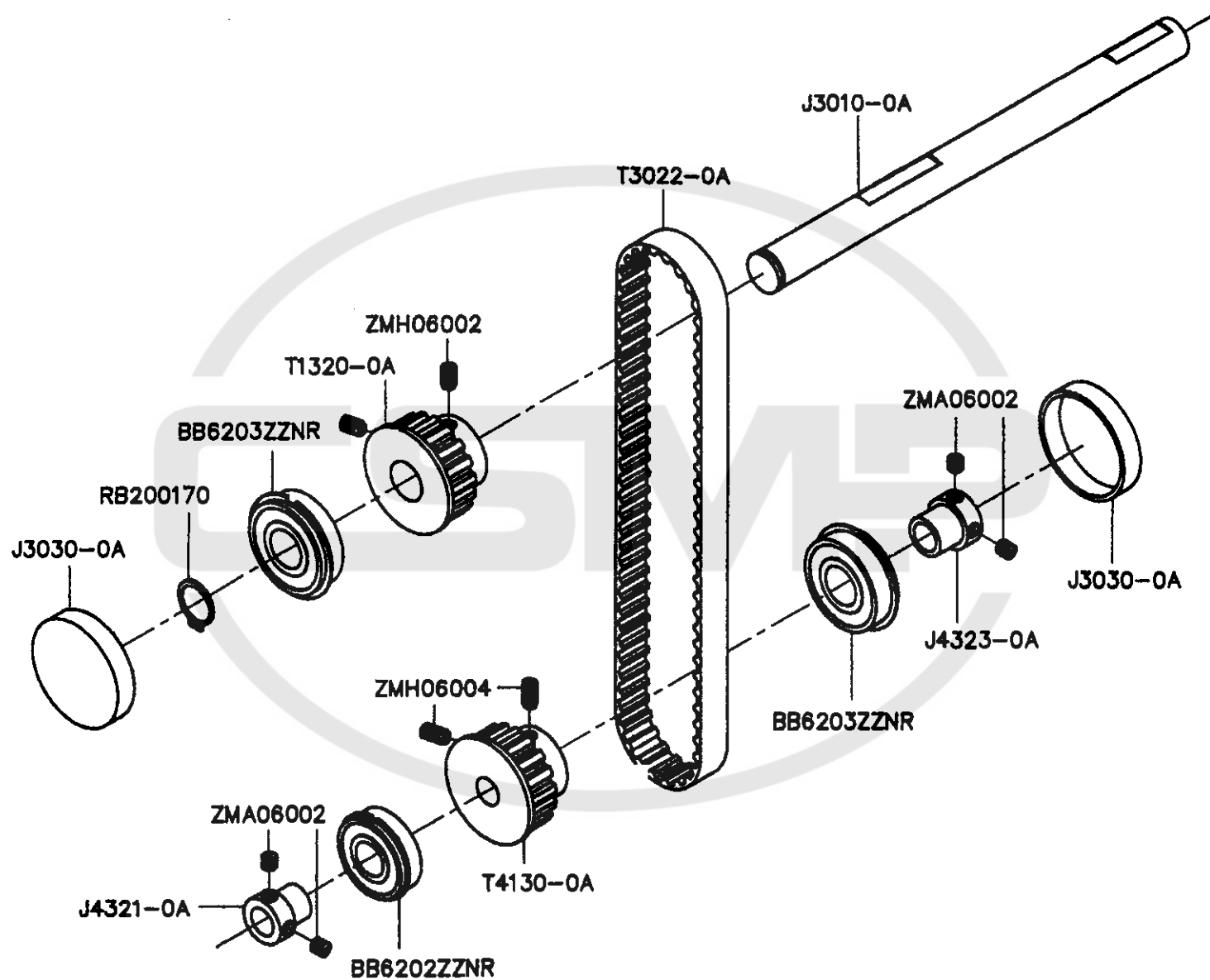
J.

PRESSER FOOT BAR MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
J1011-0A	--- Cover -----	1	1	
J1181-0A	-- Presser Bar Bushing, (Upper) -----	1	1	
J1183-0A	-- Presser Bar Bushing, (Lower) -----	1	1	
J1185-0A	-- Presser Bar Holder -----	1	1	
J1200-0A	--- Presser Foot Lifter -----	1	1	
J1205-0A	-- Bushing -----	1	1	
J1206-0A	-- Cam Shaft -----	1	1	
J1211-0A	-- Roller Presser Holder -----	1	1	
J1212-0A	-- Roller Presser Holder -----	1	1	
J1218-0A	-- Spring -----	1	1	
J1219-0A	-- Angle -----	1	1	
J1223-0A	(3/32") --- Presser Foot -----	0	1	
J1223-1A	(1/16") --- Presser Foot -----	0	1	
J1270-0A	-- Stud -----	1	1	
J1300-0A	-- Presser Plate Spring -----	1	1	
J1301-0A	-- Spring -----	1	1	
J1305-0A	-- Knee Lifter Connecting Lever -----	1	1	
J1306-0A	-- Lifting Lever Assy. -----	1	1	
T1180-0A	-- Presser Bar -----	1	1	
ZMA06003	-- Screw (M6×0.75×7) -----	2	2	
ZMB04009	-- Screw (M4×0.7×6) -----	0	1	
ZMB04035	-- Screw (M4×0.7×8) -----	1	1	
ZMB05003	-- Screw (M5×0.8×7) -----	2	2	
ZMD04001	-- Screw (M4×0.7×8.5) -----	1	1	
ZMG06004	-- Screw (M6×1.0) -----	1	1	
ZMH05002	-- Screw (M5×0.8×6) -----	3	3	
ZMH06003	-- Screw (M6×1.0×8) -----	2	2	
ZMK06002	-- Screw (M6×1.0) -----	1	1	
ZMK08003	-- Screw (M8×0.75) -----	1	1	

K.

TIMING BELT DRIVING MECHANISM



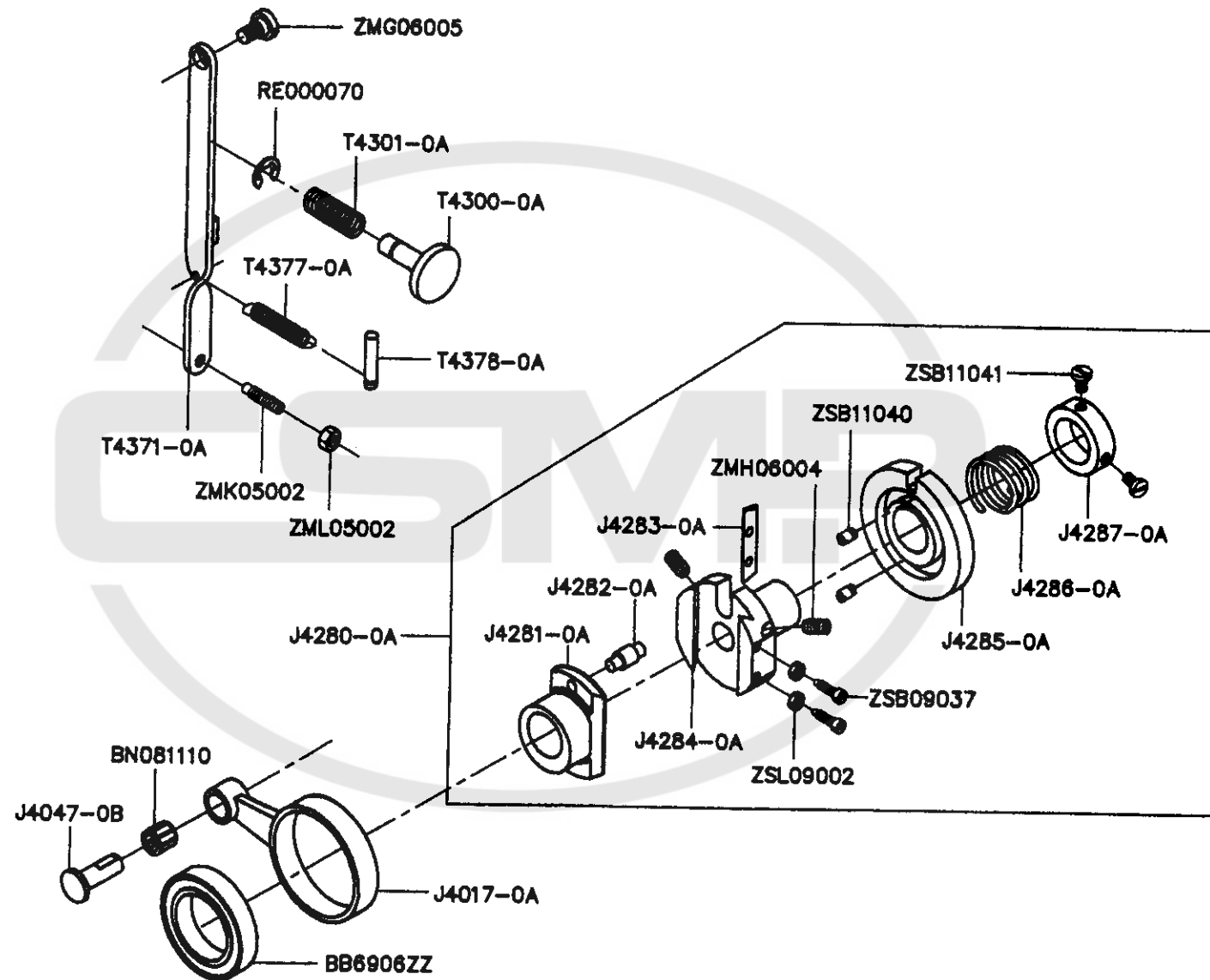
K.

TIMING BELT DRIVING MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB6202ZZNR	--- Ball Bearing -----	1	1	
BB6203ZZNR	--- Ball Bearing -----	2	2	
J 3 0 1 0 - 0 A	--- Shaft -----	1	1	
J 3 0 3 0 - 0 A	-- Plug -----	2	2	
J 4 3 2 1 - 0 A	-- Collar (Left) -----	1	1	
J 4 3 2 3 - 0 A	-- Collar (Right) -----	1	1	
RB200170	-- Retaining Ring -----	1	1	
T 1 3 2 0 - 0 A	-- Timing Belt Wheel -----	1	1	
T 3 0 2 2 - 0 A	-- Timing Belt -----	1	1	
T 4 1 3 0 - 0 A	--- Timing Belt Wheel -----	1	1	
ZMA06002	--- Screw (M6×0.75×4.5) -----	4	4	
ZMH06002	--- Screw (M6×0.75×8) -----	2	2	
ZMH06004	--- Screw (M6×0.75×10) -----	2	2	

L.

STITCH REGULATOR MECHANISM



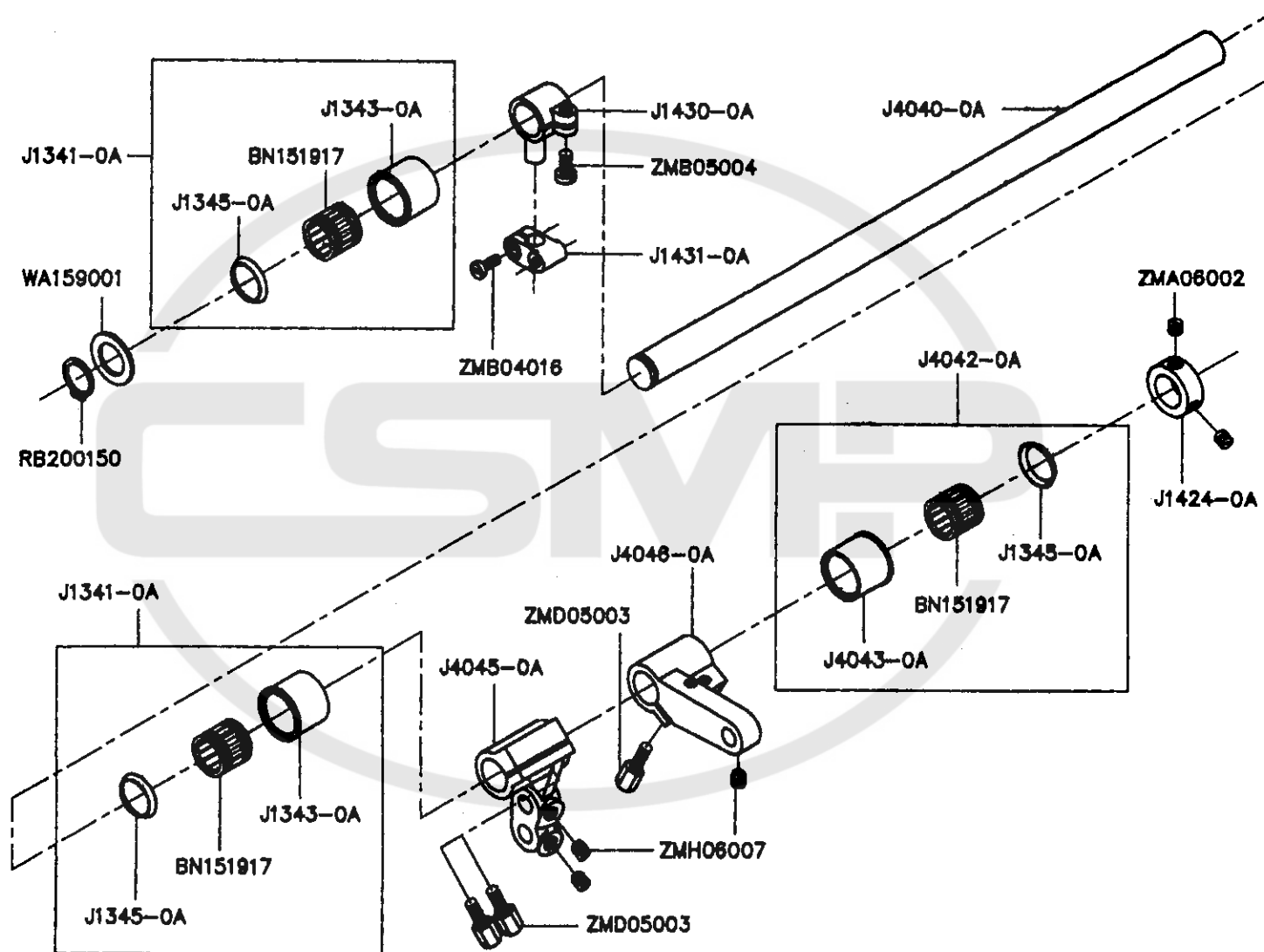
L.

STITCH REGULATOR MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB6906ZZ	--- Ball Bearing ---	1	1	
BN081110	--- Needle Bearing ---	1	1	
J4017-0A	--- Connecting Rod ---	1	1	
J4047-0B	--- Bearing Stud ---	1	1	
J4280-0A	--- Cam Assy. ---	1	1	
J4281-0A	--- Stitch Regulating Seat ---	1	1	
J4282-0A	--- Feed Adjusting Screw ---	1	1	
J4283-0A	--- Friction Plate ---	1	1	
J4284-0A	--- Stitch Regulating Fix Seat ---	1	1	
J4285-0A	--- Eccentric Wheel ---	1	1	
J4286-0A	--- Spring ---	1	1	
J4287-0A	--- Collar ---	1	1	
RE000070	--- E-Ring ---	1	1	
T4300-0A	--- Pin ---	1	1	
T4301-0A	--- Spring ---	1	1	
T4371-0A	--- Feeding Adjusting Plate ---	1	1	
T4377-0A	--- Spring ---	1	1	
T4378-0A	--- Pin ---	1	1	
ZMG06005	--- Screw (M6×1.0) ---	1	1	
ZMH06004	--- Screw (M6×0.75×10) ---	1	1	
ZMK05002	--- Screw (M5×0.8) ---	2	2	
ZML05002	--- Nut (M5×0.8×4) ---	1	1	
ZSB09037	--- Screw (9/64-40×12) ---	1	1	
ZSB11040	--- Screw (11/64-40×2.5) ---	2	2	
ZSB11041	--- Screw (11/64-40×7) ---	2	2	
ZSL09002	--- Nut (9/64-40×2.5) ---	2	2	

M.

FEED SHAFT MECHANISM



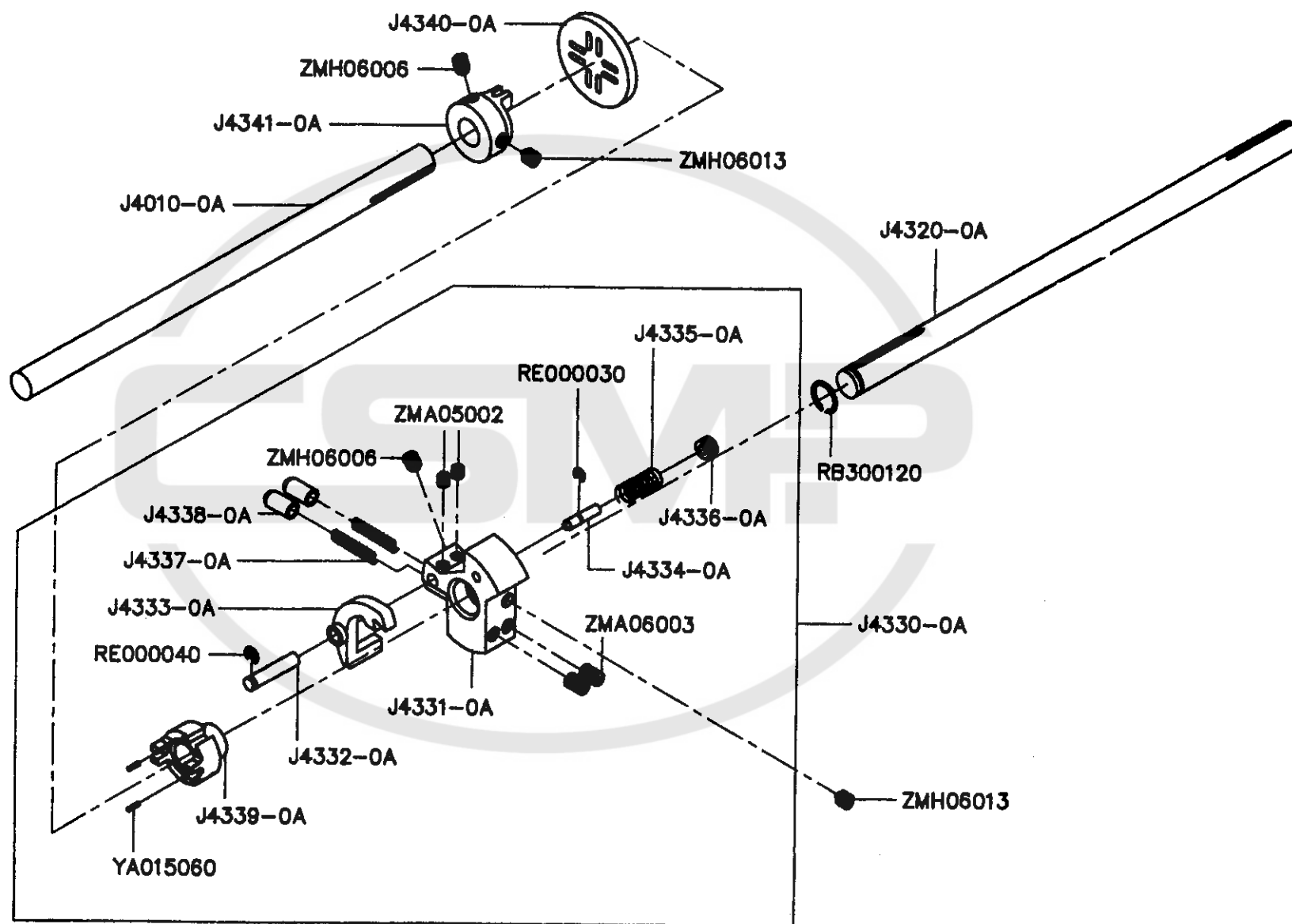
M.

FEED SHAFT MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BN151917	Needle Bearing	3	3	
J1314-0A	Bushing	2	2	
J1343-0A	Bushing	2	2	
J1345-0A	Washer	3	3	
J1424-0A	Collar	1	1	
J1430-0A	Crank	1	1	
J1431-0A	Clamp	1	1	
J4040-0A	Shaft	1	1	
J4042-0A	Bushing	1	1	
J4043-0A	Bushing	1	1	
J4045-0A	Crank	1	1	
J4046-0A	Crank	1	1	
RB200150	Retaining Ring	1	1	
WA159001	Washer	1	1	
ZMA06002	Screw (M6×0.75×4.5)	2	2	
ZMB04016	Screw (M4×0.7×10)	1	1	
ZMB05004	Screw (M5×0.8×10)	1	1	
ZMD05003	Screw (M5×0.8×12.5)	4	4	
ZMH06007	Screw (M6×0.75×5)	3	3	

N.

CLUTCH SET MECHANISM



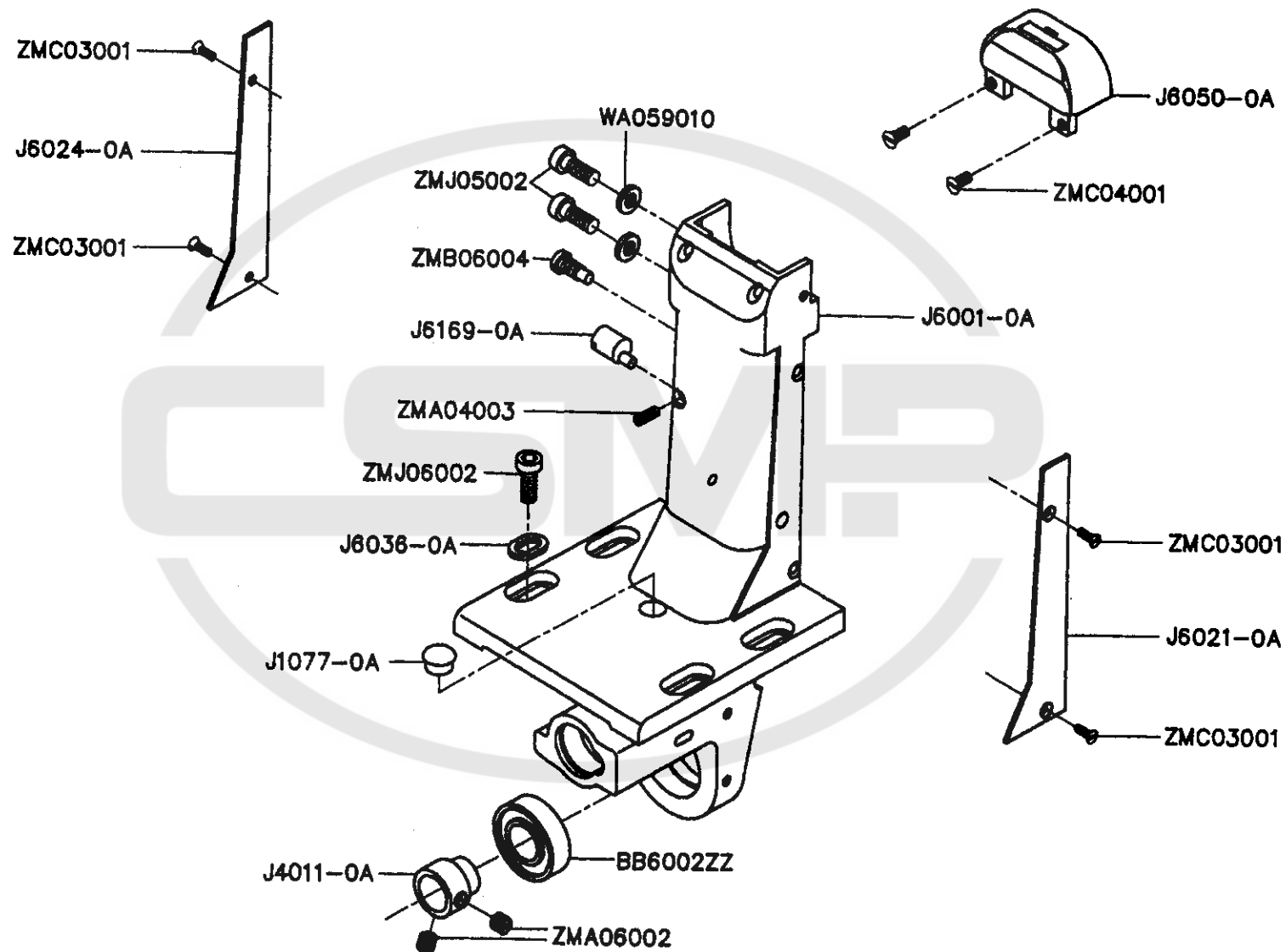
N.

CLUTCH SET MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
J4010-0A	--- Shaft -----	1	1	
J4320-0A	--- Shaft -----	1	1	
J4330-0A	--- Safety Clutch -----	1	1	
J4331-0A	--- Safety Clutch Seat -----	1	1	
J4332-0A	--- Hinge Stud -----	1	1	
J4333-0A	--- Latch -----	1	1	
J4334-0A	--- Drop-In Pin -----	1	1	
J4335-0A	--- Spring -----	1	1	
J4336-0A	--- Ring -----	1	1	
J4337-0A	--- Spring -----	2	2	
J4338-0A	--- Stud -----	2	2	
J4339-0A	--- Coupler (Right) -----	1	1	
J4340-0A	--- Connecting Plate -----	1	1	
J4341-0A	--- Counpler (Left) -----	1	1	
RB300120	--- Retaining Plate -----	1	1	
RE000030	--- E-Ring -----	1	1	
RE000040	--- E-Ring -----	1	1	
YA015060	--- Pin -----	2	2	
ZMA05002	--- Screw (M5×0.8×4.5) -----	2	2	
ZMA06003	--- Screw (M6×0.75×7) -----	2	2	
ZMH06006	--- Screw (M6×0.75×6) -----	2	2	
ZMH06013	--- Scrwe (M6×0.75×8) -----	2	2	

O.

9971-C CENTRAL BRACKET MECHANISM



O. 9971-C

CENTRAL BRACKET MECHANISM

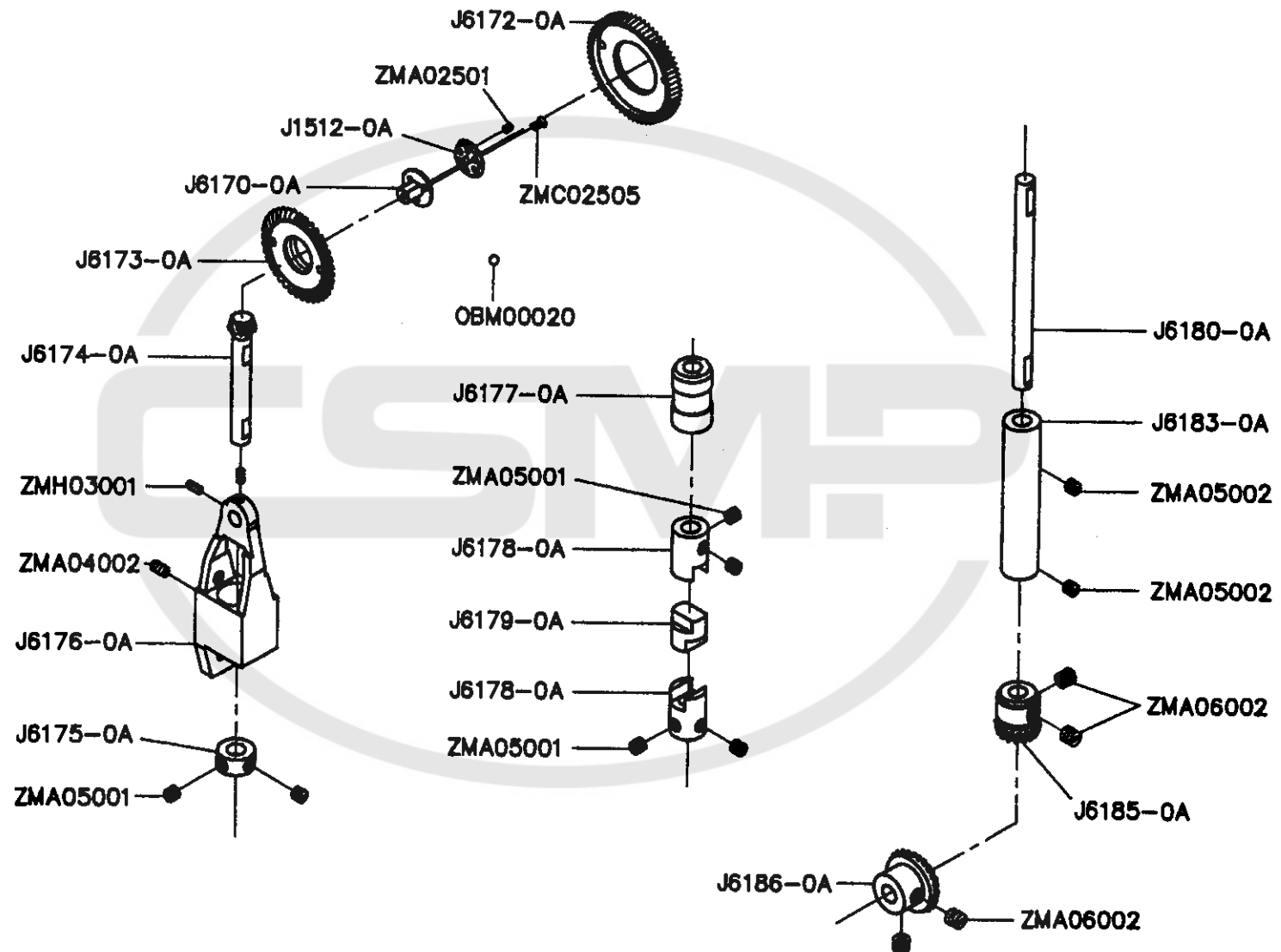
Q. CENTRAL BRACKET MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C		
BB6002ZZ	--- Ball Bearing -----	1		
J1077-0A	-- Plug -----	1		
J4011-0A	--- Collar -----	1		
J6001-0A	--- Support Plate -----	1		
J6021-0A	-- Cover Plate -----	1		
J6024-0A	-- Cover Plate -----	1		
J6036-0A	-- Washer -----	4		
J6050-0A	--- Needle Plate -----	1		
J6169-0A	-- Stud -----	1		
WA059010	-- Washer -----	2		
ZMA04003	-- Screw (M4×0.7×10) -----	1		
ZMA06002	-- Screw (M6×0.75×4.5) -----	2		
ZMB06004	-- Screw (M6×1.0×14) -----	1		
ZMC03001	-- Screw (M3×0.5×8.5) -----	4		
ZMC04001	-- Screw (M4×0.7×8.5) -----	2		
ZMJ05002	-- Screw (M5×0.8×12) -----	2		
ZMJ06002	-- Screw (M6×1.0×15) -----	4		

O.

9971-C

CENTRAL BRACKET MECHANISM



O

9971-C

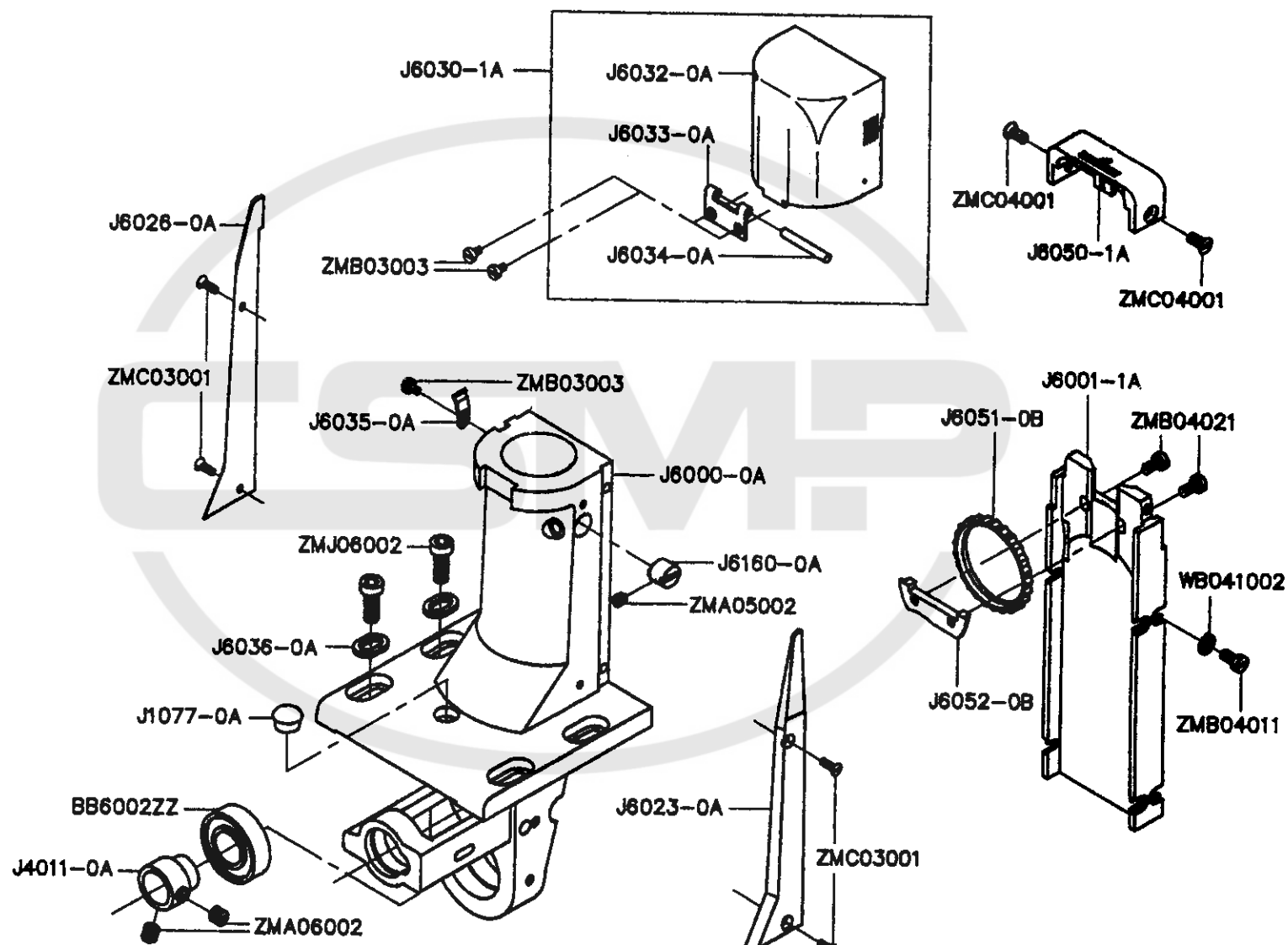
CENTRAL BRACKET MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C		
J1512-0A	-- Presser Shaft Seat (Front) -----	1		
J6170-0A	--- Roller Bracket (Upper) -----	1		
J6172-0A	-- Feed Wheel -----	1		
J6173-0A	-- Bevel Gear (Upper) -----	1		
J6174-0A	-- Bevel Gear (Lower) -----	1		
J6175-0A	-- Collar -----	1		
J6176-0A	--- Bracket -----	1		
J6177-0A	-- Bushing -----	1		
J6178-0A	--- Bushing -----	2		
J6179-0A	--- Clutch -----	1		
J6180-0A	-- Shaft -----	1		
J6183-0A	-- Bushing -----	1		
J6185-0A	-- Bevel Gear (Small) -----	1		
J6186-0A	-- Bevel Gear (Medium) -----	1		
OBM00020	-- Ball -----	24		
ZMA02501	-- Screw (M2.5×0.45×2) -----	3		
ZMA04002	-- Screw (M4×0.7×6) -----	1		
ZMA05001	-- Screw (M5×0.8×3.5) -----	6		
ZMA05002	-- Screw (M5×0.8×4.5) -----	2		
ZMA06002	-- Screw (M6×0.75×4.5) -----	4		
ZMC02505	-- Screw (M2.5×0.45×4.6) -----	3		
ZMH03001	-- Screw (M3×0.5×4) -----	2		

P.

9974-C

LEFT SIDE BRACKET AND CENTRAL BRACKET MECHANISM



P. 9974-C

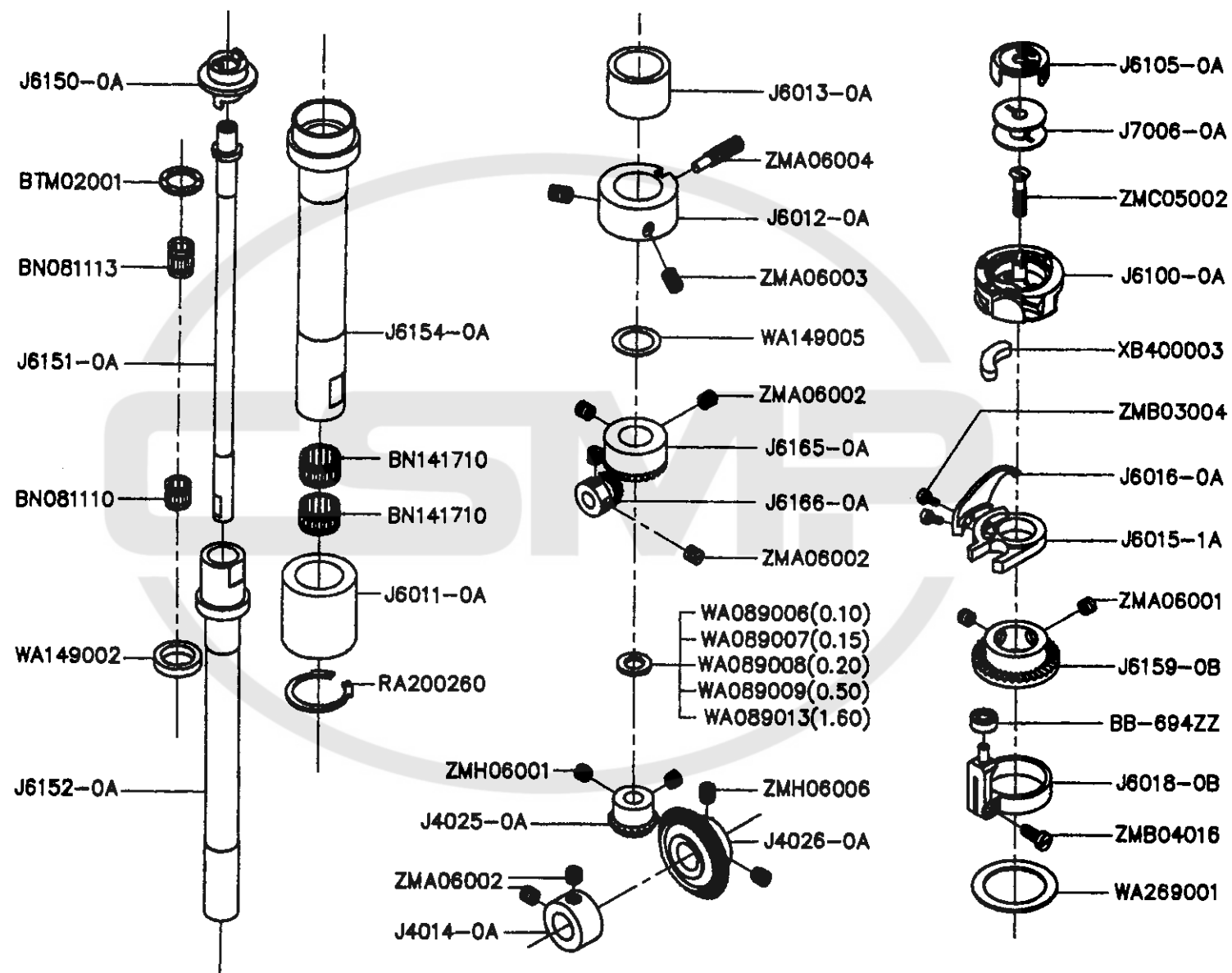
LEFT SIDE BRACKET AND CENTRAL BRACKET MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9974-C		
BB6002ZZ	--- Ball Bearing -----	1		
J1077-0A	-- Plug -----	1		
J4011-0A	--- Collar -----	1		
J6000-0A	-- Side Bracket(Left) -----	1		
J6001-1A	--- Support Plate -----	1		
J6023-0A	-- Cover Plate -----	1		
J6026-0A	-- Cover Plate -----	1		
J6030-1A	-- Post Cap Assy. -----	1		
J6032-0A	-- Post Cap -----	1		
J6033-0A	-- Hinge -----	1		
J6034-0A	-- Pin -----	1		
J6035-0A	-- Spring -----	1		
J6036-0A	-- Washer -----	4		
J6050-0A	-- Needle Plate -----	1		
J6051-0B	-- Feed Wheel -----	1		
J6052-0B	-- Bearing Plate -----	1		
J6160-0A	-- Stud -----	1		
WB041002	--- Spring Washer -----	8		
ZMA05002	-- Screw (M5×0.8×4.5) -----	1		
ZMA06002	-- Screw (M6×0.75×3.5) -----	2		
ZMB03003	--- Screw (M3×0.5×4.7) -----	3		
ZMB04011	-- Screw (M4×0.7×8) -----	8		
ZMB04021	-- Screw (M4×0.7×10) -----	2		
ZMC03001	-- Screw (M3×0.5×8.5) -----	4		
ZMC04001	-- Screw (M4×0.7×8.5) -----	2		
ZMJ06002	--- Screw (M6×1.0×15) -----	4		

Q.

9974-C

LEFT SIDE BRACKET MECHANISM



Q.

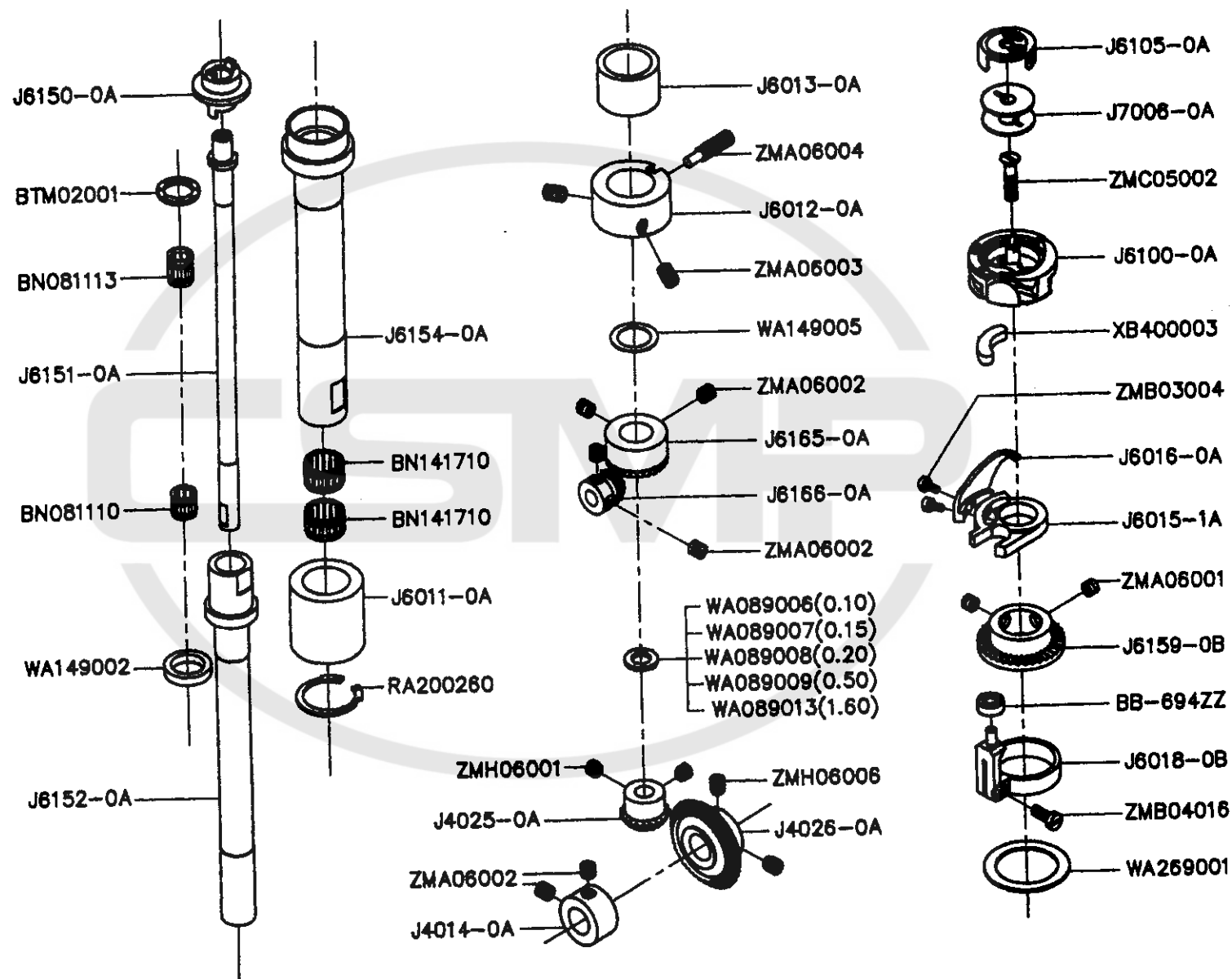
9974-C

LEFT SIDE BRACKET MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9974-C		
BB-694ZZ	--- Ball Bearing -----	1		
BN081110	--- Needle Bearing -----	1		
BN081113	--- Needle Bearing -----	1		
BN141710	--- Needle Bearing -----	2		
BTM02001	--- Thrust Bearing -----	1		
J4014-0A	--- Collar -----	1		
J4025-0A	--- Bevel Gear (Small) -----	1		
J4026-0A	--- Bevel Gear (Large) -----	1		
J6011-0A	--- Bushing -----	1		
J6012-0A	--- Bushing -----	1		
J6013-0A	--- Bushing -----	1		
J6015-1A	-- Rotating Hook Opener Bracket -----	1		
J6016-0A	--- Rotating Hook Opener -----	1		
J6018-0B	--- Driver -----	1		
J6100-0A	--- Hook -----	1		
J6105-0A	--- Bobbin Case -----	1		
J6150-0A	-- Hook Driver -----	1		
J6151-0A	--- Hook Shaft -----	1		
J6152-0A	--- Feed Wheel Shaft -----	1		
J6154-0A	--- Pull-Off Shaft -----	1		
J6159-0B	--- Driving Wheel -----	1		
J6165-0A	--- Bevel Gear (Large) -----	1		
J6166-0A	--- Bevel Gear (Small) -----	1		
J7006-0A	--- Bobbin -----	1		
RA200260	-- Retaining Ring -----	1		
WA089006	-- Washer -----	1		
WA089007	-- Washer -----	1		
WA089008	-- Washer -----	1		
WA089009	-- Washer -----	1		
WA089013	-- Washer -----	1		
WA149002	-- Washer -----	1		
WA149005	-- Washer -----	1		
WA269001	--- Washer -----	1		

Q. 9974-C

LEFT SIDE BRACKET MECHANISM



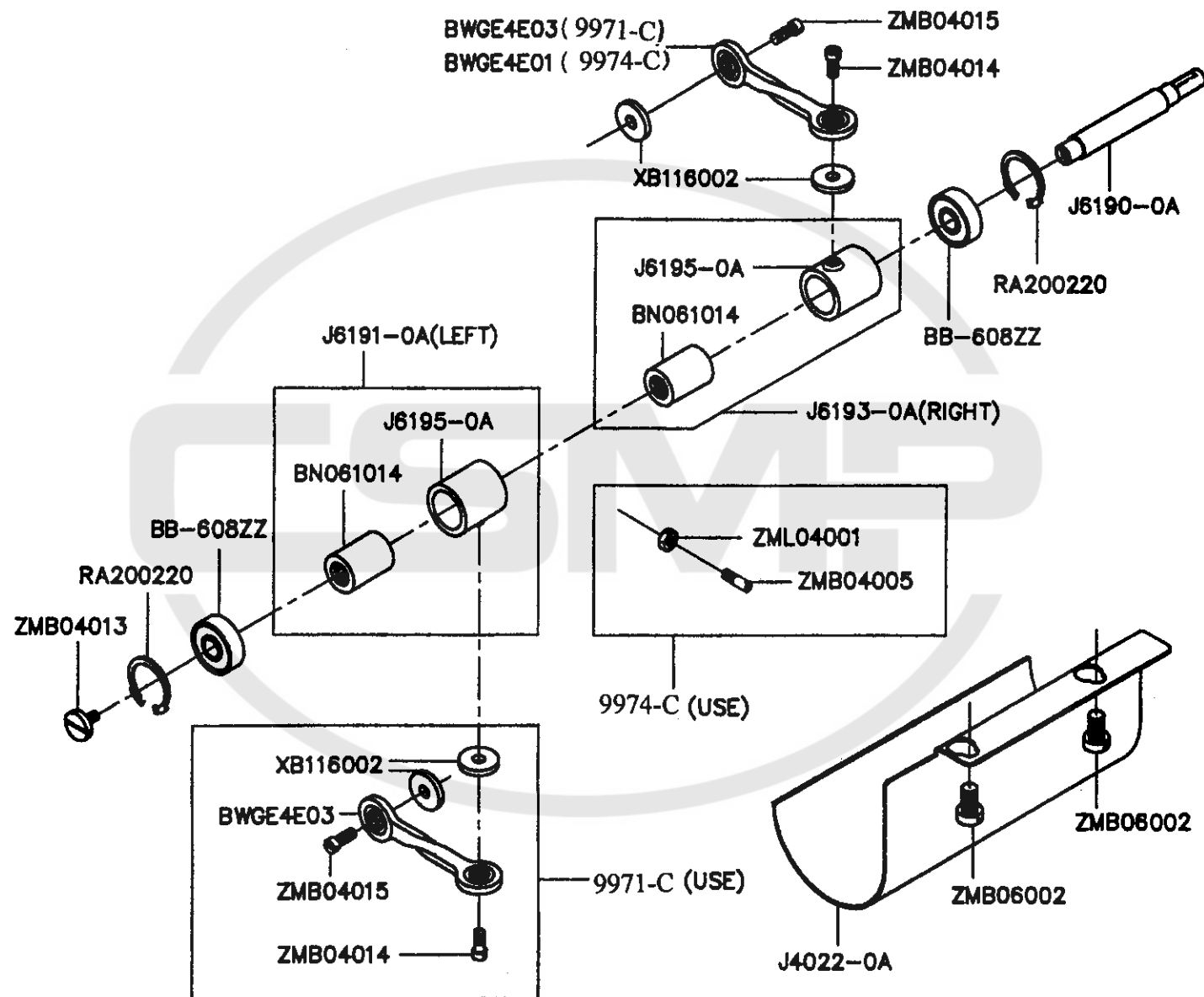
Q. 9974-C

LEFT SIDE BRACKET MECHANISM

Part No.	Name of Part	Q' TY	Remarks
		9974-C	
XB400003	--- Felt -----	1	
ZMA06001	--- Screw (M6×0.75×3.5) -----	2	
ZMA06002	--- Screw (M6×0.75×4.5) -----	6	
ZMA06003	--- Screw (M6×0.75×7) -----	2	
ZMA06004	--- Screw (M6×1.0×25) -----	1	
ZMB03004	--- Screw (M3×0.5×5.7) -----	2	
ZMB04016	--- Screw (M4×0.7×10) -----	1	
ZMC05002	--- Screw (M5×0.8×20) -----	1	
ZMH06001	--- Screw (M6×0.75×4) -----	2	
ZMH06006	--- Screw (M6×0.75×6) -----	2	

R.

FEED WHEEL SINGLE-DIRECTION DRIVING MECHANISM



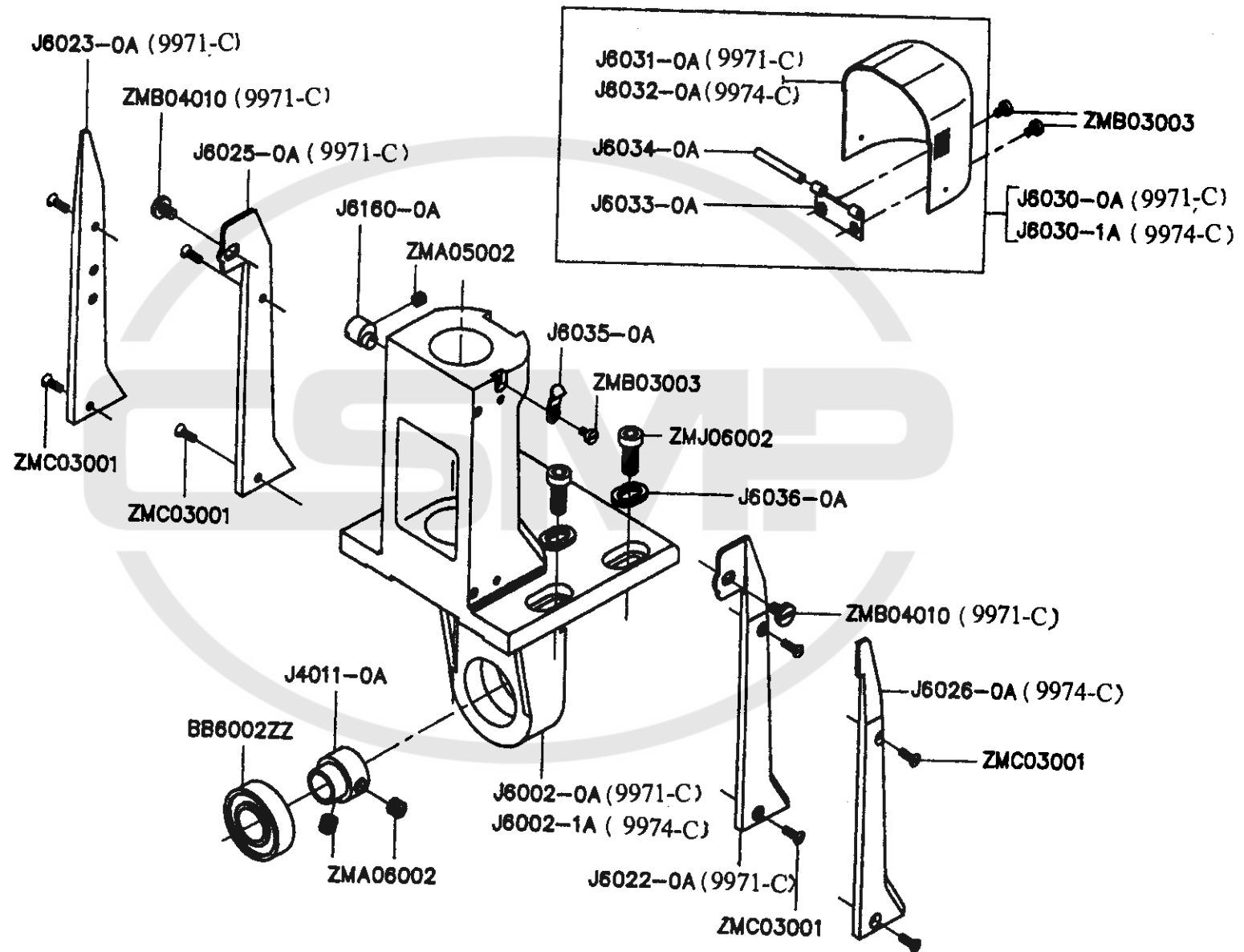
R.

FEED WHEEL SINGLE-DIRECTION DRIVING MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB-608ZZ	--- Ball Bearing -----	2	2	
BN061014	--- Needle Bearing -----	2	2	
BWGE4E01	--- Link -----	0	1	
BWGE4E03	--- Link -----	2	0	
J4022-0A	--- Cover Plate -----	1	1	
J6190-0A	--- Shaft -----	1	1	
J6191-0A	--- Free-Wheeling (Left) -----	1	1	
J6193-0A	--- Free-Wheeling (Right) -----	1	1	
J6195-0A	--- Free-Wheeling Seat -----	2	2	
RA200220	--- Retaining Ring -----	2	2	
XB116002	--- Felt -----	4	2	
ZMB04005	--- Screw (M4×0.7×6) -----	0	1	
ZMB04013	--- Screw (M4×0.7×8) -----	1	1	
ZMB04014	--- Screw (M4×0.7×8) -----	2	1	
ZMB04015	--- Screw (M4×0.7×8.5) -----	2	1	
ZMB06002	--- Screw (M6×1.0×10) -----	2	2	
ZML04001	--- Nut (M4×0.7×2.3) -----	0	1	

S.

RIGHT SIDE BRACKET MECHANISM



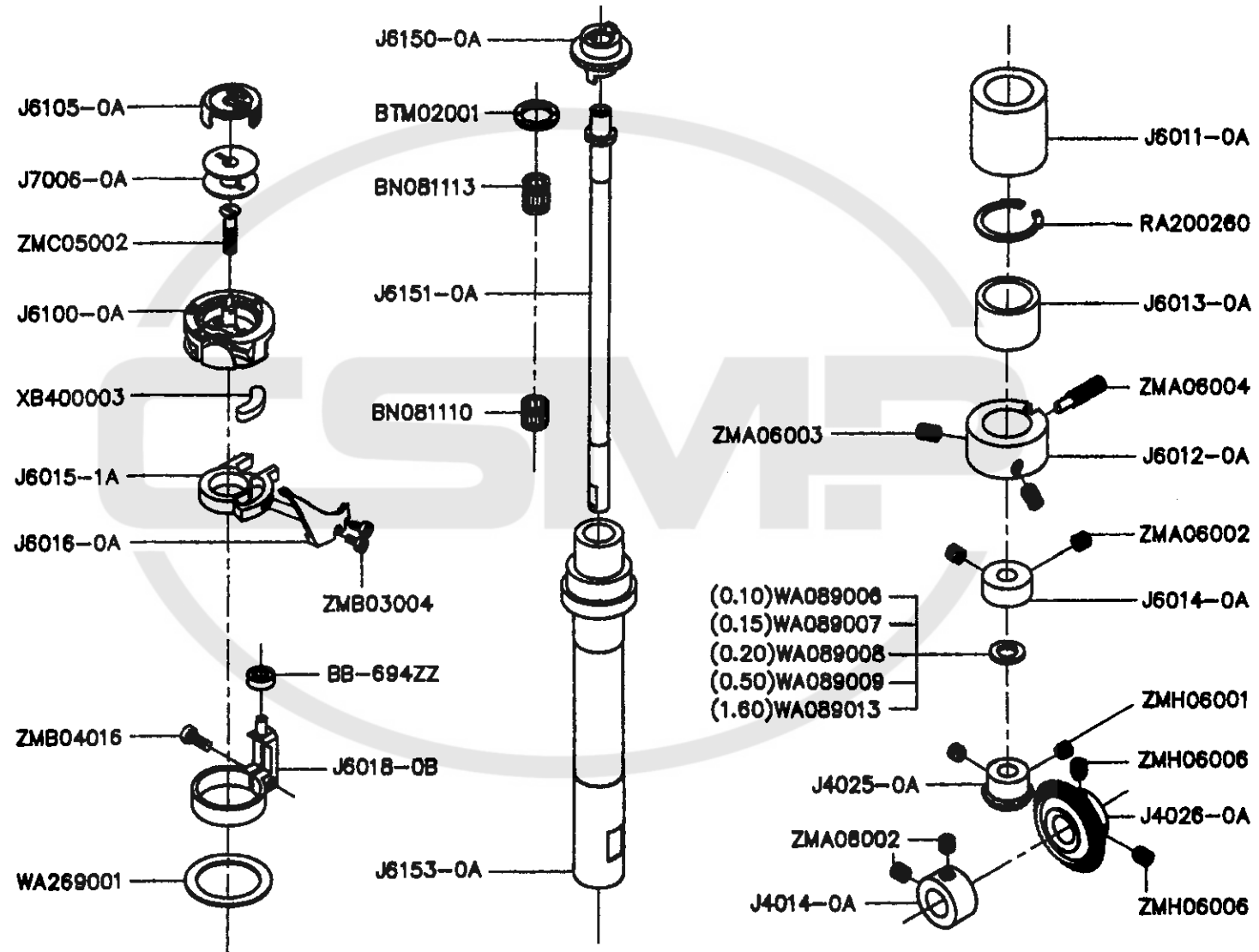
S.

RIGHT SIDE BRACKET MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB6002ZZ	--- Ball Bearing -----	1	1	
J4011-0A	--- Collar -----	1	1	
J6002-0A	--- Side Bracket -----	1	0	
J6002-1A	--- Side Bracket -----	0	1	
J6022-0A	--- Cover Plate -----	1	0	
J6023-0A	--- Cover Plate -----	0	1	
J6025-0A	--- Cover Plate -----	1	0	
J6026-0A	--- Cover Plate -----	0	1	
J6030-0A	--- Post Cap Assy. -----	1	0	
J6030-1A	--- Post Cap Assy. -----	0	1	
J6031-0A	--- Post Cap -----	1	0	
J6032-0A	--- Post Cap -----	0	1	
J6033-0A	--- Hinge -----	1	1	
J6034-0A	--- Pin -----	1	1	
J6035-0A	--- Spring -----	1	1	
J6036-0A	--- Washer -----	4	4	
J6160-0A	--- Eccentric Stud -----	1	1	
ZMA05002	--- Screw (M5×0.8×4.5) -----	1	1	
ZMA06002	--- Screw (M6×0.75×4.5) -----	2	2	
ZMB03003	--- Screw (M3×0.5×4.7) -----	3	3	
ZMB04010	--- Screw (M4×0.7×6) -----	2	0	
ZMC03001	--- Screw (M3×0.5×8.5) -----	4	4	
ZMJ06002	--- Screw (M6×1.0×15) -----	4	4	

S.

RIGHT SIDE BRACKET MECHANISM



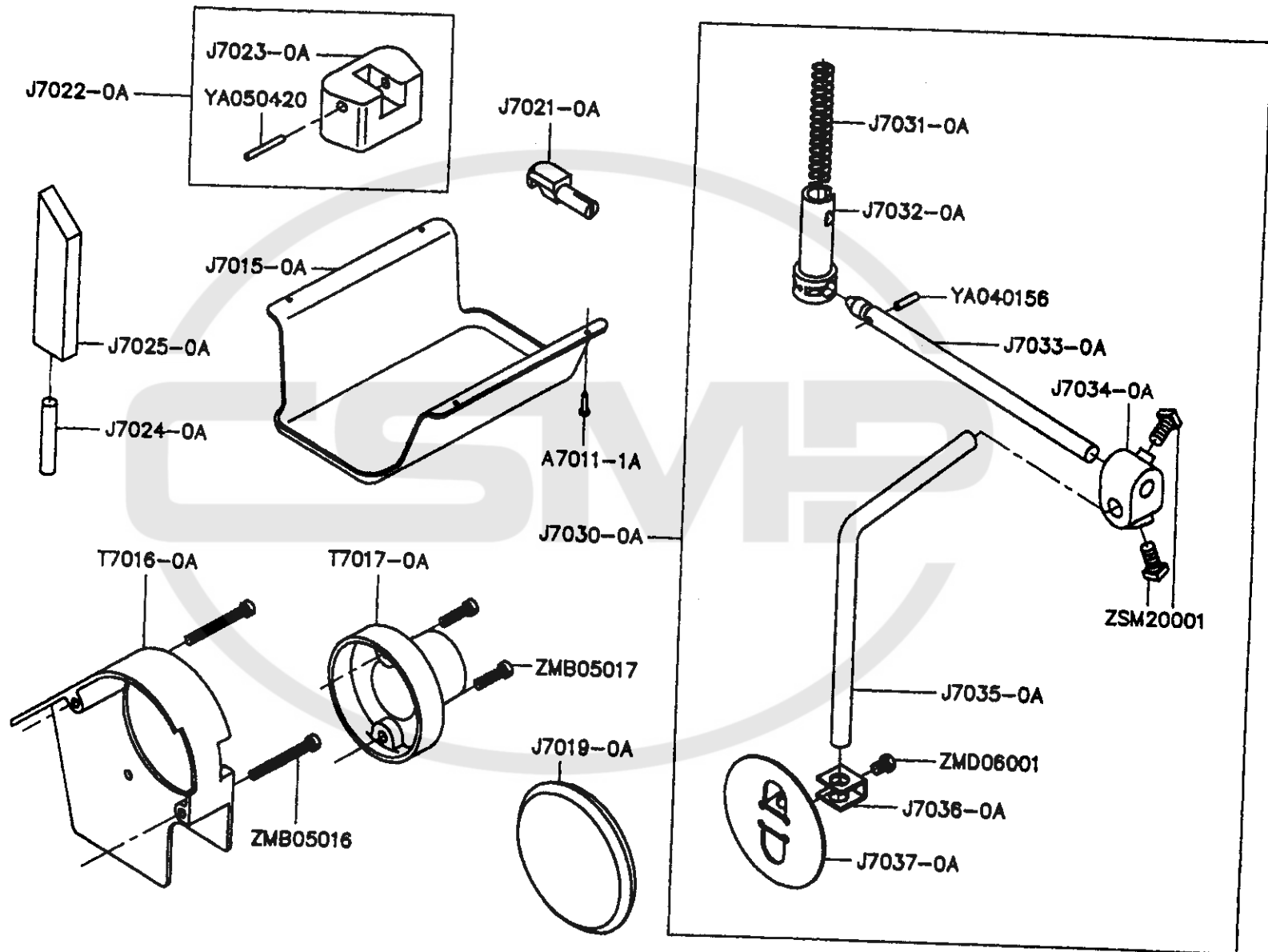
S.

RIGHT SIDE BRACKET MECHANISM

Part No.	Name of Part	Q' TY		Remarks
		9971-C	9974-C	
BB-694ZZ	--- Ball Bearing -----	1	1	
BN081110	--- Needle Bearing -----	1	1	
BN081113	--- Needle Bearing -----	1	1	
BTM02001	--- Thrust Bearing -----	1	1	
J4014-0A	--- Collar -----	1	1	
J4025-0A	--- Bevel Gear (Small) -----	1	1	
J4026-0A	--- Bevel Gear (Large) -----	1	1	
J6011-0A	--- Bushing -----	1	1	
J6012-0A	--- Bushing -----	1	1	
J6013-0A	--- Bushing -----	1	1	
J6014-0A	--- Collar -----	1	1	
J6015-1A	--- Rotating Hook Opener Bracke -----	1	1	
J6016-0A	--- Rotating Hook Opener -----	1	1	
J6018-0B	--- Driver -----	1	1	
J6100-0A	--- Hook -----	1	1	
J6105-0A	--- Bobbin Case -----	1	1	
J6150-0A	--- Hook Driver -----	1	1	
J6151-0A	--- Hook Shaft -----	1	1	
J6153-0A	--- Feed Wheel Shaft -----	1	1	
J7006-0A	--- Bobbin -----	1	1	
RA200260	--- Retaining Ring -----	1	1	
WA089006	--- Washer -----	1	1	
WA089007	--- Washer -----	1	1	
WA089008	--- Washer -----	1	1	
WA089009	--- Washer -----	1	1	
WA089013	--- Washer -----	1	1	
WA269001	--- Washer -----	1	1	
XB400003	--- Felt -----	1	1	
ZMA06002	--- Screw (M6×0.75×4.5) -----	4	4	
ZMA06003	--- Screw (M6×0.75×7) -----	2	2	
ZMA06004	--- Screw (M6×1.0×25) -----	1	1	
ZMB03004	--- Screw (M3×0.5×5.7) -----	2	2	
ZMB04016	--- Screw (M4×0.7×10) -----	1	1	
ZMC05002	--- Screw (M5×0.8×20) -----	1	1	
ZMH06001	--- Screw (M6×0.75×4) -----	2	2	
ZMH06006	--- Screw (M6×0.75×6) -----	2	2	

T.

ACCESSORIES



T.

ACCESSORIES

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		9971-C	9974-C	
A7011-0A	--- Nail -----	6	6	
J7015-0A	--- Oil Pan -----	1	1	
J7019-0A	--- Knee Guard -----	1	1	
J7021-0A	--- Hinge Pin -----	2	2	
J7022-0A	--- Hinge Connection Seat Assy. -----	2	2	
J7023-0A	--- Hinge Connection Seat -----	2	2	
J7024-0A	--- Housing Support Stud -----	1	1	
J7025-0A	--- Head Rest Wood -----	1	1	
J7030-0A	--- Knee Lifter Assy. -----	1	1	
J7031-0A	--- Spring -----	1	1	
J7032-0A	--- Knee Lever Coupling -----	1	1	
J7033-0A	--- Knee Leven Rod -----	1	1	
J7034-0A	--- Clamp -----	1	1	
J7035-0A	--- Knee Lever Rod -----	1	1	
J7036-0A	--- Retainer -----	1	1	
J7037-0A	--- Knee Plate -----	1	1	
T7016-0A	--- Belt Cover Set (Large) -----	1	1	
T7017-0A	--- Belt Cover Set (Small) -----	1	1	
YA040156	--- Pin -----	1	1	
YA050420	--- Pin -----	2	2	
ZMB05016	--- Screw (M5×0.8×45) -----	2	2	
ZMB05017	--- Screw (M5×0.8×20) -----	2	2	
ZMD06001	--- Screw (M6×1.0×7) -----	1	1	
ZSM20001	--- Screw (5/16-18×15.5) -----	2	2	

U.

GAUGE PARTS LIST

					
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3.2	J1075-020A	3.2	J6050-031A	CIRCULAR HOLE	J6050-020A
5.5	J1075-030A	5.5	J6050-041A		
3.0	J1075-040A	1.6 SPECIAL TYPE	J6050-051A		
2.4	J1075-050A	1.6 PARALLEL TYPE	J6050-061A		
4.0	J1075-080A	2.8	J6050-071A		

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A1027-1A	4	BB6202ZZNR	22	J1066-0A	10	J1213-1A	8
A1028-1A	4	BB6203ZZNR	22	J1067-0A	10	J1213-3A	8
A1028-2A	4	BB6204ZZNR	12	J1068-0A	10	J1218-0A	20
A1030-0A	4	BB6906ZZ	24	J1069-0A	10	J1219-0A	20
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