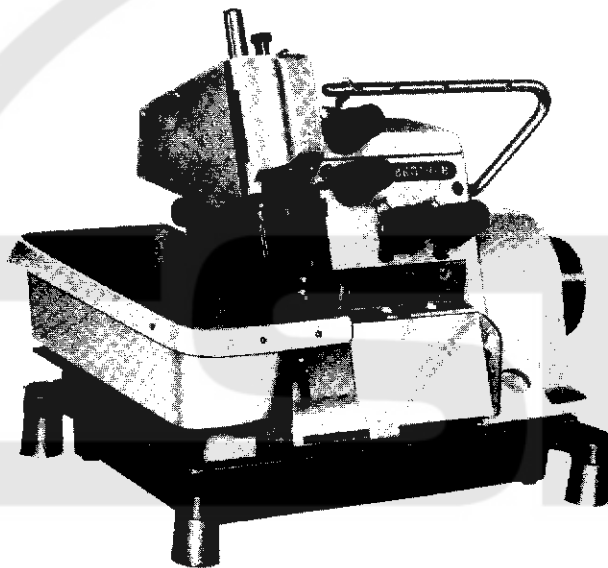


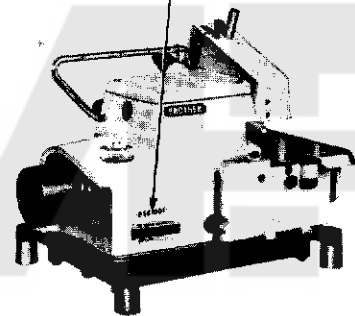
PARTS BOOK

FOR

BROTHER MA4-B581



P581102



Safety Stitch Sewing Machine

BROTHER INDUSTRIES, LTD.

NAGOYA, JAPAN

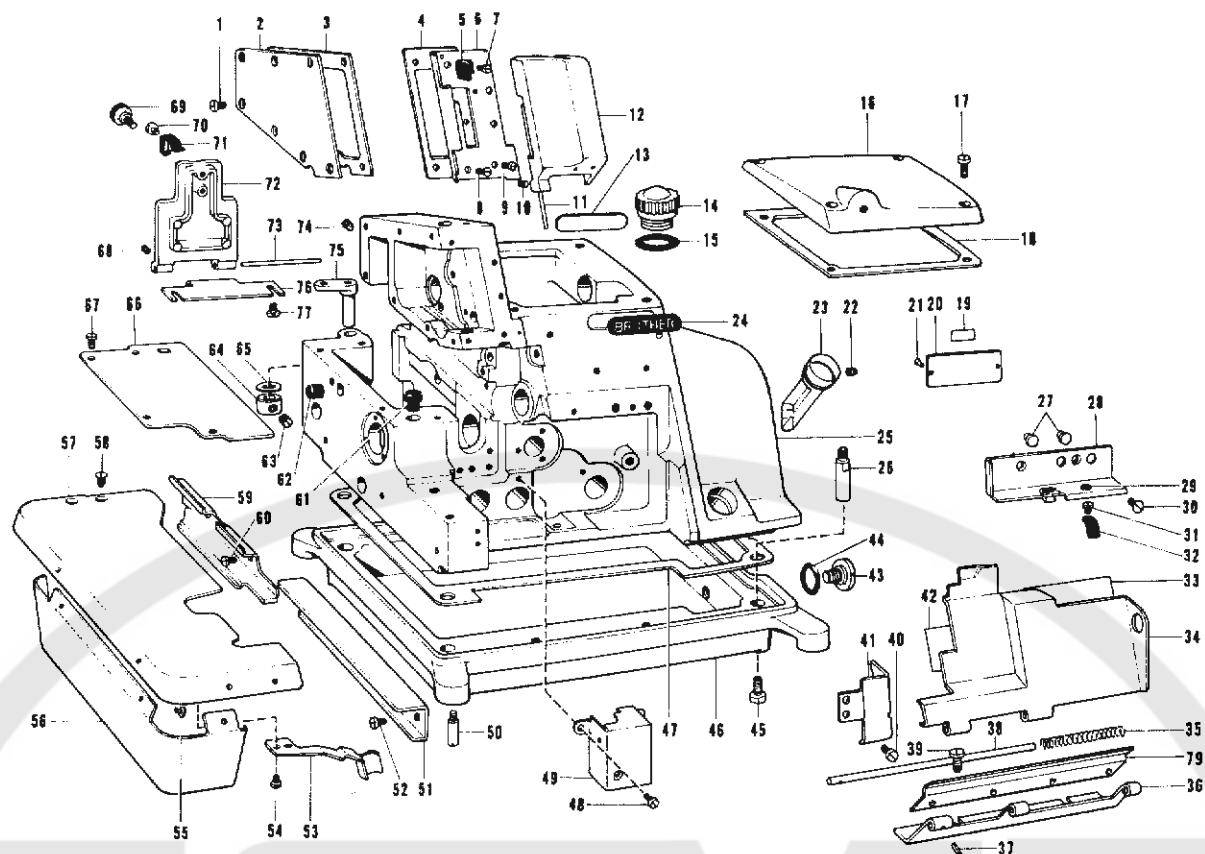
How to use the parts book

1. This parts book can be used for ordering of the parts of the machine whose plate number is same as shown on the upper cover of the book (or correction sheet).
2. Those pages from A~G·Z·Y on this parts catalogue show all the parts for MA4-B581-061-○.
3. When the column for the parts number or parts assembly number is · 000000-0-00 please refer to the different parts list on the page 24.
4. When the column for the parts number is , the parts can not be supplied. But when the parts number is shown in the column, please order the parts by the parts assembly number so that can be arranged in the from of assembled parts.
5. After Page 8, please refer to the different parts list on the page 24.

CONTENTS

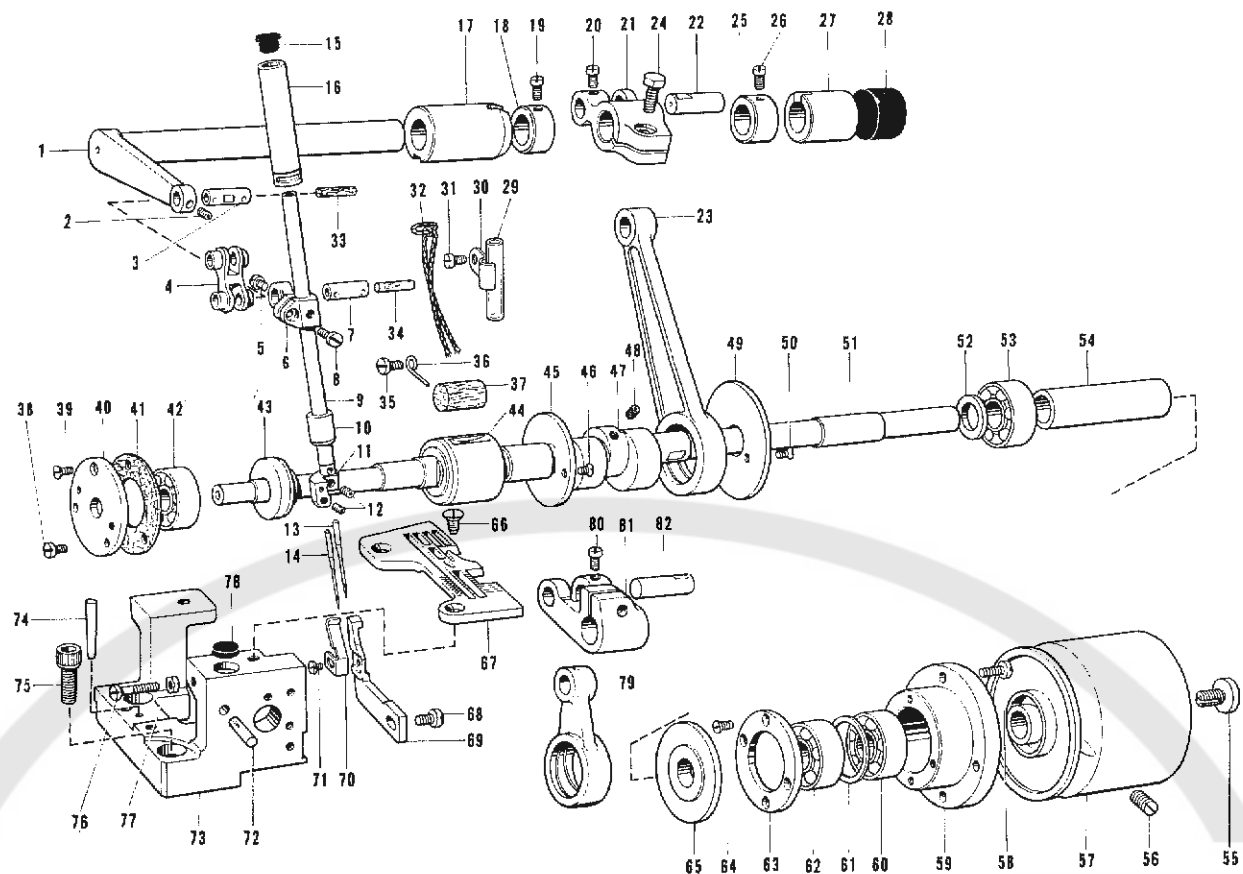
A. 061-○(Thin) Machin Body	1	S. 071-○ Needle Width 5mm (Medium, Heavy)	14
B. 061-○(Thin) Crank Shaft and Needle Bar Mechanism	2	T. 073-○ Needle Width 2mm (Thin, Medium Ruffling (W/Piping))	15
C. 061-○(Thin) Looper Mechaniam	3	U. 075-○ Needle Width 3mm (Thin, Medium Ruffling (W/Piping))	16
D. 061-○(Thin) Looper for Double Chain Stitch	4	V. 077-○ Needle Width 5mm (Thin, Medium Ruffling (W/Piping))	17
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F. 061-○(Thin) Knives and Presser Foot Mechanism	6	W. 087-○ Needle Width 5mm (Extra Heavy)	19
G. 061-○(Thin) Threading	7	a. 089-○ Needle Width 3mm (Thin, Medium Binding)	20
K. 062-○ Needle Width 2mm (Thin)	8	b. 092-○ Needle Width 5mm (Extra Heavy)	21
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M. 064 ○ Needle Width 3mm (Thin, Medium)	9	z. Machin Head Plate and Spool Stand	22
N. 065-○ Needle Width 5mm (Medium, Heavy)	10	Y. Accessories	23
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R. 069-○ Needle Width 3mm (Thin, Medium)	13		

A. 061-○(Thin) Machine Body



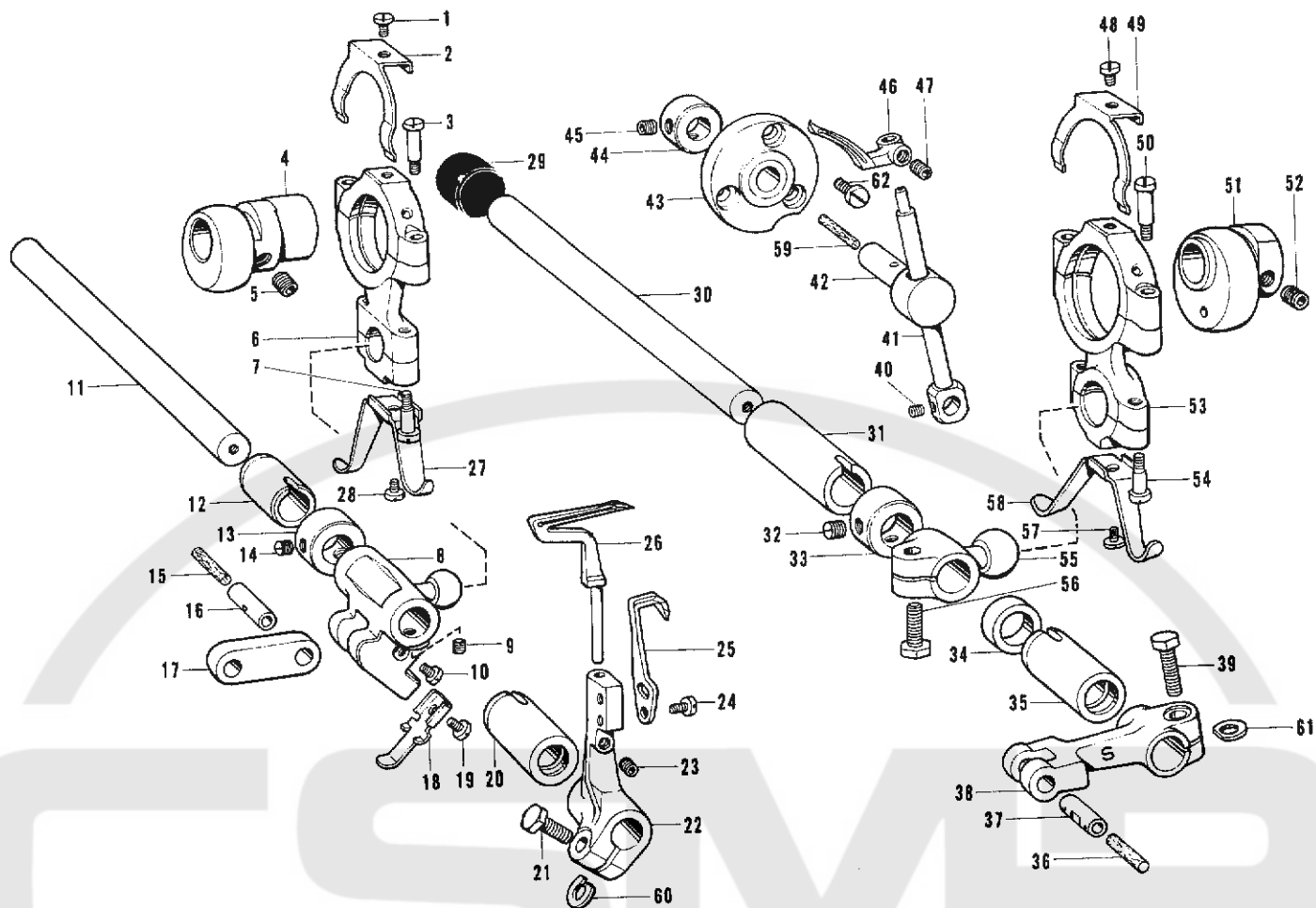
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A-1	Screw	7	009680-7-14		A-40	Screw	2	009670-6-12	
A-2	Cover for Needle Driving Mechanism	1	148067-0-01		A-41	Front Cover Guide	1	148103-0-01	
A-3	Face Plate Packing	1	148068-0-00		A-42	Looper Threading Lavel	1	147943-0-01	
A-4	Face Plate Packing	1	148075-0-00		A-43	Screw	1	110641-0-01	
A-5	Stopper Spring	1	140041-0-01		A-44	Packing	1	109203-0-01	
A-6	Face Plate	1	148074-0-01		A-45	Bolt	4	017771-6-12	
A-7	Screw	1	009670-6-12		A-46	Oil Reservoir	1	148087-0-01	
A-8	Screw	1	102843-0-04		A-47	Packing	1	148088-0-00	
A-9	Screw	1	009670-6-12		A-48	Screw	2	009670-6-12	
A-10	Screw	1	146427-0-01		A-49	Inside Cover	1	148078-0-01	
A-11	Pin for Face Plate	1	146426-0-00		A-50	Set Pin for Cushion	4	140077-0-01	
A-12	Face Plate Cover	1	148073-0-01		A-51	Frame Hanger	1	148090-0-01	
A-13	Number Lavel (P)	1			A-52	Screw	3	009680-7-12	
A-14	Cap for Oil Feeding Hole	1	146421-0-00		A-53	Stopper Spring for Cloth Plate	1	148304-0-01	
A-15	Packing	1	113589-0-01		A-54	Screw	2	009670-6-12	
A-16	Top Cover	1	148065-0-01		A-55	Screw	3	106568-0-01	
A-17	Screw	4	009681-2-12		A-56	Cloth Plate lower	1	148083-0-01	
A-18	Packing	1	148066-0-00		A-57	Cloth Plate	1	148082-0-01	
A-19	Lavel	1			A-58	Screw	2	100032-0-03	
A-20	Model Plate 581	1			A-59	Cloth Guide (L)	1	148089-0-01	
A-21	Model Plate Pin	2			A-60	Screw	2	009670-6-12	
A-22	Screw	1	014680-4-22		A-61	Oil Cap	1	148077-0-01	
A-23	Oil Gauge	1	148084-0-01		A-62	Oil Cap	1	146315-0-00	
A-24	Name Plate	1			A-63	Screw	2	101706-0-01	
A-25	Machine Body	1			A-64	Set Collar	1		181969-0-03
A-26	Machine Body Leg	4	148085-0-01		A-65	Washer	1	141183-0-00	
A-27	Oil Cap	2	111865-0-01		A-66	Cover	1	148076-0-01	
A-28	Supporter for Front Cover	1			A-67	Screw	4	009670-6-12	
A-29	Thread Bushing	2	146924-0-00	146444-0-01	A-68	Screw	1	146427-0-01	
A-30	Screw	2	117160-0-01		A-69	Screw	1	106120-0-02	
A-31	Screw	1	009670-4-12		A-70	Screw	1	009670-6-12	
A-32	Stopper Spring for Front Cover	1	146446-0-01		A-71	Stopper Spring	1	148072-0-01	
A-33	Threading Diagram	1	148104-0-01		A-72	Cover for Feed Mechanism (B)	1	148069-0-01	
A-34	Front Cover	1			A-73	Hinge Shaft	1	148071-0-00	
A-35	Spring	1	146442-0-01		A-74	Screw	2	013760-6-12	
A-36	Front Cover Hinge	1	146440-0-01		A-75	Cloth Plate Supporter	1	143374-0-01	
A-37	Pin	1	047140-8-42	148987-0-01	A-76	Feed Mechanism Cover Hinge	1	148070-0-01	
A-38	Front Cover Hinge Shaft	1	146441-0-00		A-77	Screw	2	009680-7-12	
A-79	Hinge Cover	1	148984-0-01		A-78	Packing	1	148859-0-00	
A-39	Screw	2	107407-0-03						

061- (Thin) B. Crank Shaft and Needle Bar Mechanism



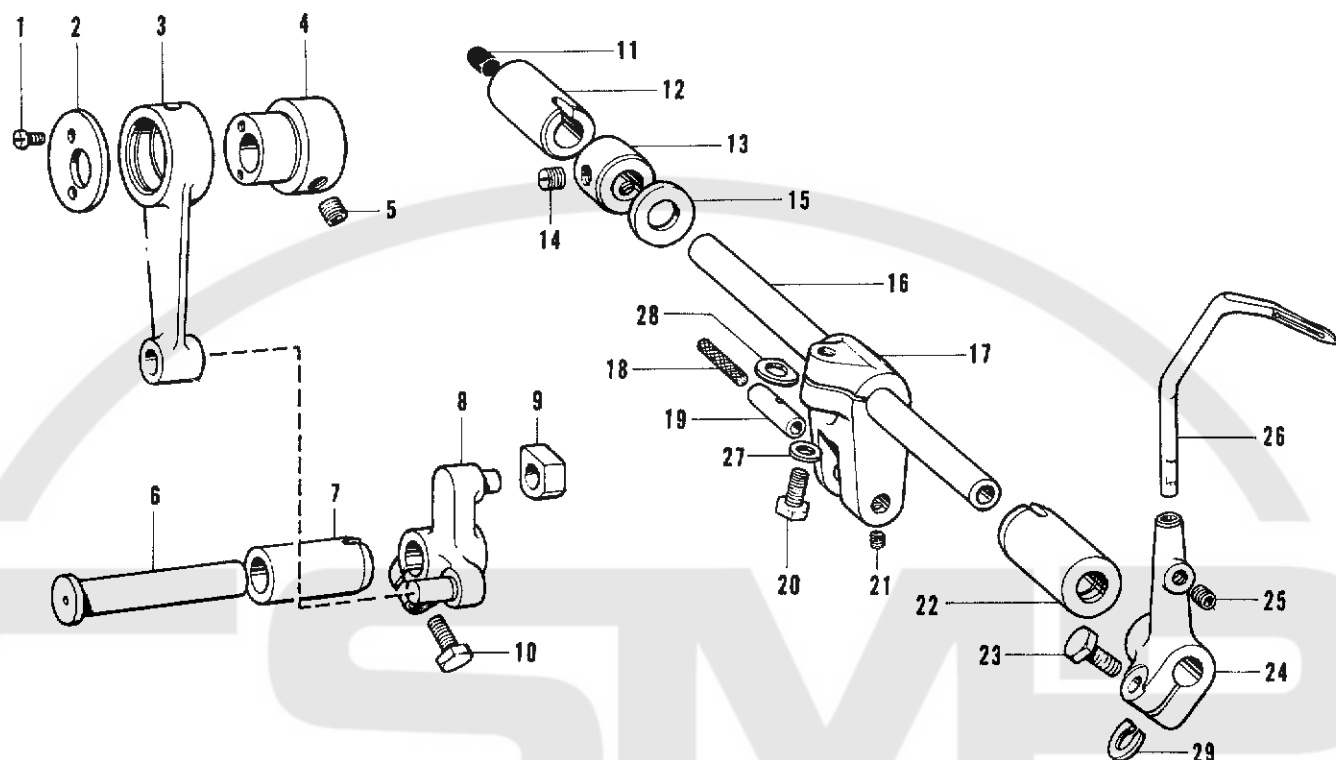
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B- 1	Needle Bar Crank Shaft	1		148269-0-01	B-37	Felt	1	112754-0-01	
B- 2	Screw	1	146427-0-01		B-38	Screw	2	009670-8-12	
B- 3	Needle Bar Link Shaft	1			B-39	Screw	1	102538-0-02	
B- 4	Needle Bar Link	1			B-40	Bearing Cap	1	146472-0-01	
B- 5	Screw	1	009669-4-12		B-41	Packing	1	143312-0-00	
B- 6	Needle Bar Clamp	1			B-42	Bearing 6000	1	072600-0-00	
B- 7	Needle Bar Link Shaft	1			B-43	Bushing	1	148086-0-00	
B- 8	Screw	1	009670-8-12		B-44	Crank Shaft Outer Bushing (L) Assembly	1	148373-0-00	
B- 9	Needle Bar	1	146483-0-01		B-45	Looper Connecting Rod Stopper Guide L	1	148225-0-01	
B-10	Needle Bar Bushing (D)	1	146486-0-00		B-46	Screw	2	102843-0-04	
B-11	Needle Clamp 2	1		146487-0-01	B-48	Screw	2	148857-0-01	
B-12	Screw	2	146427-0-01		B-49	Looper Connecting Rod Stopper Guide R	1	148205-0-01	
B-13	Needle DC×1	1	112297-0-11		B-50	Screw	2	102843-0-04	
B-14	Needle DM×13	1	140104-0-11		B-51	Crank Shaft	1	148113-0-01	
B-15	Cap	1	114255-0-02	148858-0-01	B-52	Spacer	1	148112-0-00	
B-16	Needle Bar Bushing (U)	1	148123-0-01		B-53	Bearing 6001	1	072600-1-00	
B-17	Needle Shaft Bushing (Left)	1	148121-0-00		B-54	Collar L	1	148111-0-00	
B-18	Set Collar	1	140092-0-01		B-55	Cap Screw	1	140180-0-01	
B-19	Screw	2	100366-0-01		B-56	Screw	2	013761-4-10	
B-20	Screw	1	100366-0-01		B-57	Pully	1	140085-0-03	
B-21	Needle Arm Driving Lever	1			B-58	Screw	4	009681-0-12	
B-22	Pin	1			B-59	Thrust Washer	1	110670-0-00	
B-23	Needle Arm Driving Crank Rod	1			B-60	Bearing 6001	1	072600-1-00	
B-47	Needle Bar Upper Knife Eccentric Cam	1			B-61	Thrust Washer	1	110672-0-00	
B-79	Pin	1		148858-0-01	B-62	Bearing 6001	1	072600-1-00	
B-80	Upper Knife Driving Lever	1			B-63	Bearing Cover	1	110673-0-00	
B-81	Screw	1	100366-0-01		B-64	Screw	4	107244-0-01	
B-82	Upper Knife Driving Rod	1			B-65	Oil Rejector	1	140084-0-00	
B-24	Bolt	1	017761-6-12		B-66	Screw	2	100032-0-03	
B-25	Set Collar	1	140092-0-01		B-67	Needle Plate	1		
B-26	Screw	2	100366-0-01		B-68	Screw	1	009680-7-12	
B-27	Needle Shaft Bushing (Right)	1	148120-0-00		B-69	Chain Stich Needle Guard (B)	1	148126-0-01	
B-28	Oil Cap 20.30×10	1	140066-0-01		B-70	Chain Stich Needle Guard (F)	1	148125-0-01	
B-29	Vinil Tube	1	146644-0-00		B-71	Screw	1	009669-4-12	
B-30	Tube Holder	1	148315-0-01	148858-0-01	B-72	Pin	1	117608-0-01	
B-31	Screw	1	009680-7-12		B-73	Needle Plate Support Bracket	1	148124-0-01	
B-32	Wick	1	118768-0-01		B-74	Pin 3.5×24	1	107351-0-01	
B-33	Felt	1	147691-0-00		B-75	Bolt	2	018061-6-22	
B-34	Felt	1	147691-0-00		B-76	Screw	1	009671-4-12	
B-35	Screw	1	009680-7-12		B-77	Nut	1	021670-2-02	
B-36	Felt Holder	1	148247-0-01		B-78	Cloth Plate Cushion (B)	1	111486-0-01	

C. 061-○(Thin) C. Looper Mechanism



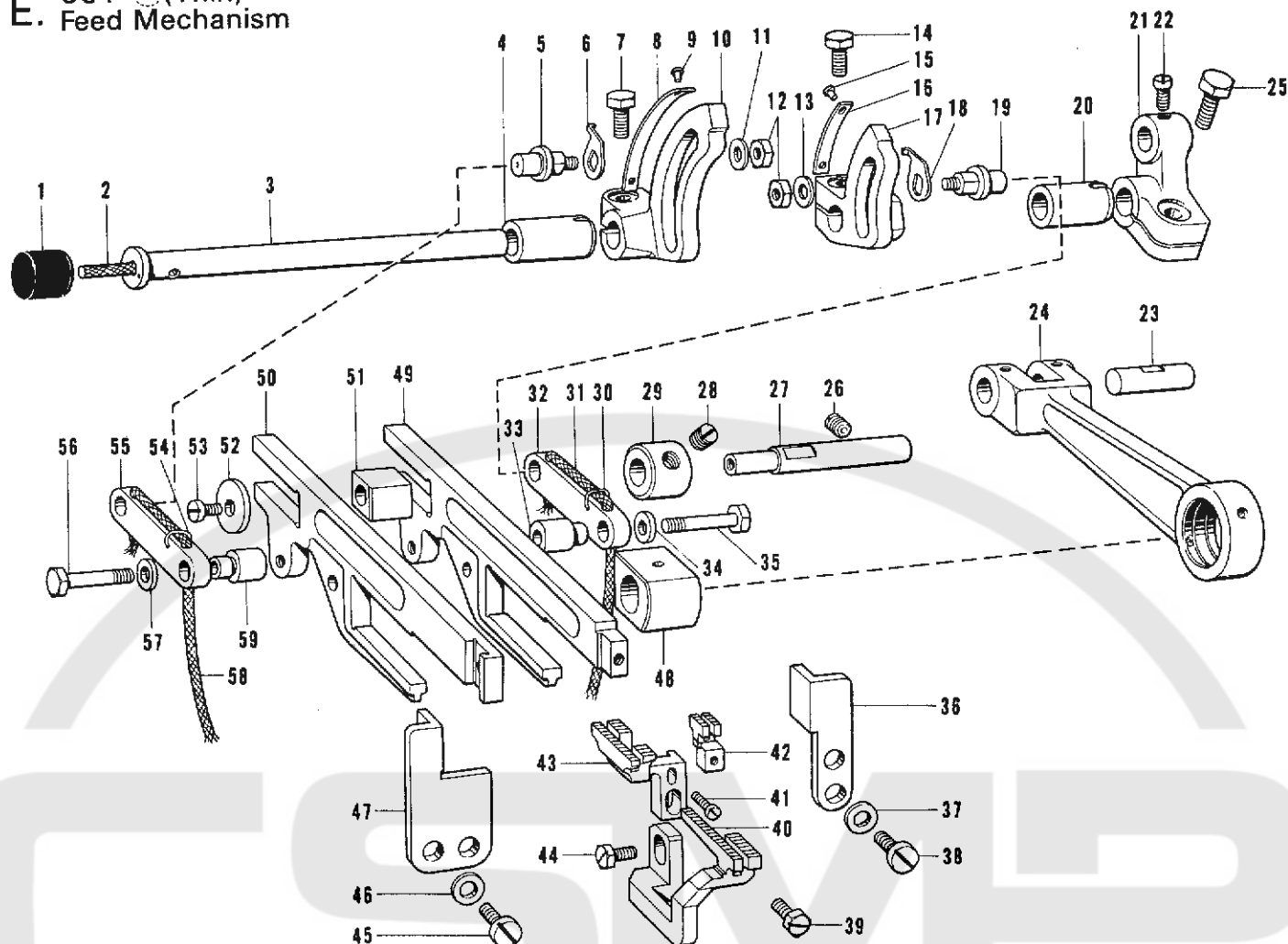
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C-1	Screw	1	009670-5-12		C-31	Bushing	1	148207-0-00	
C-2	Looper Connecting Rod Stopper	1	148224-0-01		C-32	Screw	2	100260-0-01	
C-4	Under Looper Eccentric Cam	1		181629-0-01	C-33	Set Collar	1	146581-0-01	
C-5	Screw	2	148857-0-01		C-34	Thrust Collar	1	148208-0-01	
C-3	Screw	2	142590-0-01		C-35	Bushing	1	144031-0-00	
C-6	Looper Connecting Rod	1		181630-0-01	C-36	Wick	1	108809-0-01	
C-7	Screw	2	142590-0-01		C-37	Over Looper Holder Pin	1		
C-8	Under Looper Connecting Lever	1		148230-0-01	C-38	Over Looper	1		
C-9	Screw	2	014680-4-22		C-61	Spacer	1	148783-0-01	
C-10	Screw	1	144458-0-01		C-39	Bolt	1	017761-6-12	
C-11	Under Looper Shaft	1	148226-0-01		C-40	Screw	1	146427-0-01	148209-0-01
C-12	Under Looper Shaft Bushing (B)	1	148227-0-00		C-41	Over Looper Holder	1		
C-13	Set Collar	1		180323-0-01	C-42	Over Looper Holder Guide Block	1		
C-14	Screw	2	013760-6-12		C-43	Over Looper Holder Guide Base	1		
C-15	Wick	1	143444-0-01		C-44	Set Collar	1		
C-16	Under Looper Holder Pin	1	148232-0-01		C-45	Screw	2	014680-4-22	
C-17	Chain Stitch Link	1	148242-0-01		C-46	Over Looper	1		147934-0-01
C-18	Oil Jumping Plate	1	148252-0-01		C-47	Screw	1	014680-4-22	
C-19	Screw	1	009670-5-12		C-48	Screw	1	009670-5-12	
C-20	Under Looper Shaft Bushing (F)	1	148228-0-00		C-49	Looper Connecting Rod Stopper	1	148204-0-01	
C-21	Bolt	1	017751-4-12		C-51	Over Looper Eccentric Cam	1		181628-0-01
C-22	Under Looper Holder	1	146617-0-01		C-52	Screw	2	148857-0-01	
C-60	Spacer	1	148782-0-01		C-50	Screw	2	142658-0-01	
C-23	Screw	1	014680-4-22		C-53	Over Looper Connecting Rod	1		181631-0-01
C-24	Screw	2	009670-8-12		C-54	Screw	2	142590-0-01	
C-25	Movable Needle Gaud	1	144127-0-01		C-55	Over Looper	1		148200-0-01
C-26	Under Looper	1	144049-0-01		C-56	Bolt	1	017771-6-12	
C-27	Oil Jumping Plate	1	148251-0-01		C-57	Screw	1	009670-5-12	
C-28	Screw	1	009670-5-12		C-58	Oil Jumping Plate (R)	1	148250-0-01	
C-29	Oil Cap 20.30×66	1	140066-0-01		C-59	Wick	1	148249-0-00	
C-30	Over Looper Shaft	1	148206-0-01		C-62	Screw	3	009680-7-12	

D. 061- (Thin)
D. Looper for Double Chain Stitch



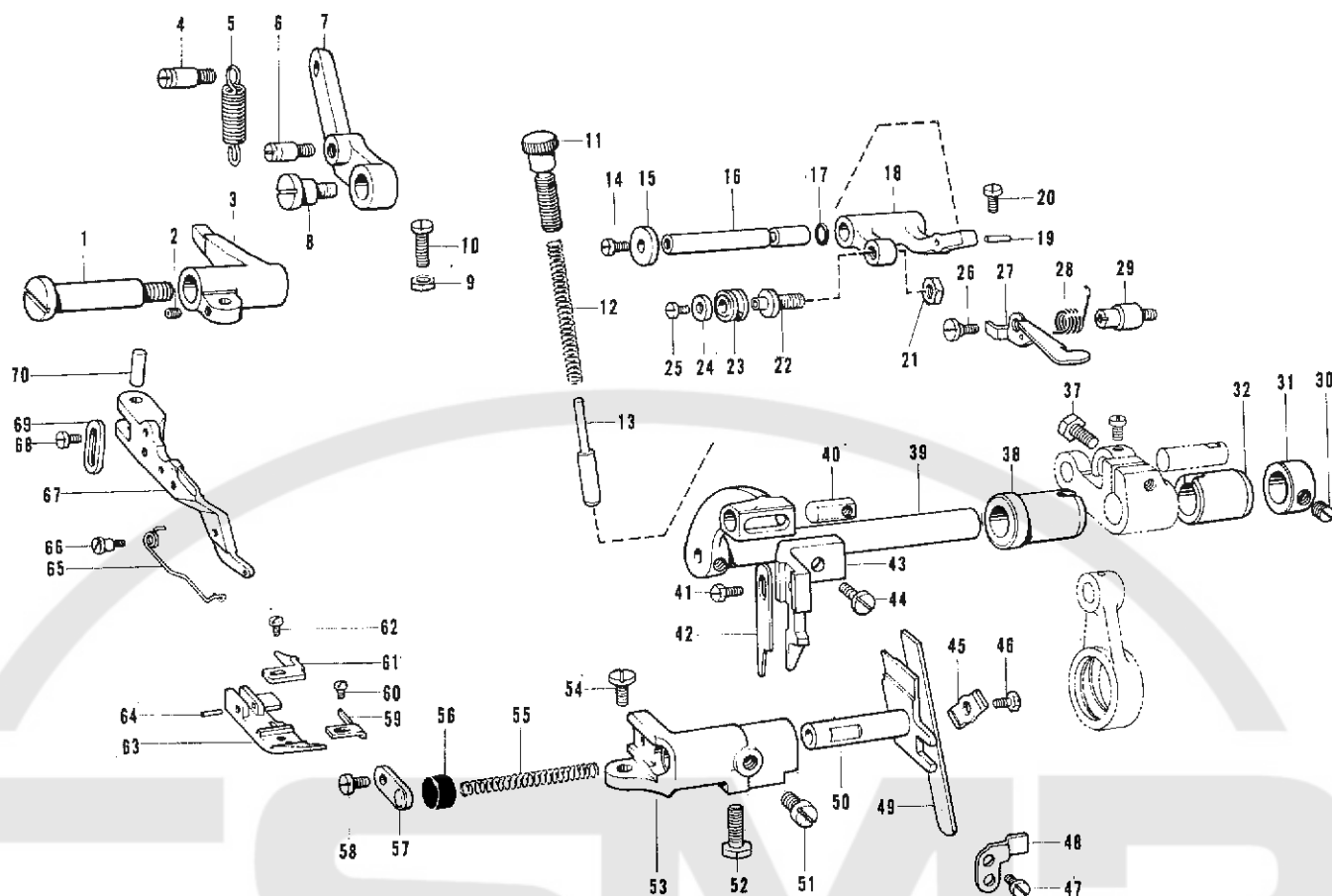
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
D- 1	Screw	2	009630-6-12		D-16	Longitudinal Feed Shaft	1	148243-0-01	
D- 2	Longitudinal Feed Driving Rod Presser Plate	1	148235-0-01		D-17	Chain Stitch Driving Lever	1	148240-0-01	
D- 3	Longitudinal Feed Driving Rod	1	148234-0-00		D-18	Wick	1	117591-0-01	
D- 4	Longitudinal Eccentric Cam(Right)	1	148233-0-01		D-19	Chain Stitch Driving Lever Shaft	1	148241-0-01	
D- 5	Screw	2	148857-0-01		D-20	Bolt	1	017761-4-12	
D- 6	Longitudinal Feed Lever Shaft	1	148236-0-01		D-21	Screw	1	146427-0-01	
D- 7	Longitudinal Feed Lever Shaft Bushing	1	148237-0-00		D-22	Longitudinal Feed Shaft Bushing B	1	148245-0-00	
D- 8	Feed Lever	1		181668-0-01	D-23	Bolt	1	017751-4-12	
D-10	Bolt	1	017771-4-12		D-24	Chain Stitch Looper Holder	1	146634-0-01	
D- 9	Slide Block	1	140313-0-01		D-25	Screw	1	014680-4-22	
D-11	Oil Cap	1	140327-0-01		D-26	Chain Stitch Looper	1	146635-0-01	
D-12	Bushing (Front)	1	148244-0-00		D-27	Washer	1	025060-1-32	
D-13	Set Collar	1		181995-0-01	D-28	Spacer	1	148783-0-01	
D-14	Screw	2	101706-0-03		D-29	Spacer	1	148782-0-01	
D-15	Thrust Collar	1	148239-0-01						

061-○(Thin) E. Feed Mechanism



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
E- 1	Oil Cap 14.30×10	1	140065-0-01		E-31	Wick	1	142674-0-00	
E- 2	Wick	1	148248-0-00		E-32	Feed Link	1	148184-0-00	
E- 3	Feed Shaft	1	148167-0-01		E-33	Feed Link Bushing	1	148185-0-01	
E- 4	Feed Shaft Bushing (L)	1	148168-0-00		E-34	Washer	1	140208-0-01	
E- 5	Feed Link Shaft	1	148181-0-01		E-35	Bolt	1	148186-0-01	
E- 6	Feed Link Indicator Plate L	1	148183-0-01		E-36	Feed Bar Guide (R)	1	148174-0-00	
E- 7	Bolt	1	017761-4-12		E-37	Washer	2	113431-0-02	
E- 8	Indicator Plate	1	148180-0-01		E-38	Screw	2	107407-0-03	
E- 9	Model Plate Pin	2	116231-0-01		E-39	Bolt	1	117516-0-01	
E-10	Differential Feed Arm	1	148179-0-01		E-40	Differential Feed Dog	1	146572-0-01	
E-11	Washer	1	148847-0-01		E-41	Screw	1	009630-8-12	
E-12	Nut	2	148838-0-01		E-42	Chain Feed Dog	1	146577-0-01	
E-13	Washer	1	148847-0-01		E-43	Main Feed Dog	1	146567-0-01	
E-14	Bolt	1	017761-4-12		E-44	Bolt	1	117516-0-01	
E-15	Model Plate Pin	2	116231-0-01		E-45	Screw	2	107407-0-03	
E-16	Indicator Plate	1	148178-0-01		E-46	Washer	2	113431-0-02	
E-17	Main Feed Arm	1	148177-0-01		E-47	Feed Bar Guide (L)	1	148175-0-00	
E-18	Feed Link Indicator Plate (R)	1	148182-0-01		E-48	Feed Lifting Slide Block	1	148173-0-00	148262-0-01
E-19	Feed Link Shaft	1	148181-0-01		E-49	Main Feed Bar	1		148170-0-01
E-20	Feed Shaft Bushing (R)	1	148169-0-00		E-50	Differential Feed Bar	1		
E-21	Feed Arm	1		148163-0-01	E-51	Feed Bar Guide Block	1	146547-0-00	
E-22	Screw	1	100366-0-01		E-52	Slide Plate	1	146549-0-01	
E-23	Pin	1	148166-0-01		E-53	Screw	1	009680-7-12	
E-24	Feed Rod	1			E-54	Steel Wire	1	140774-0-00	
E-25	Bolt	1	017761-4-12		E-55	Feed Link	1	148403-0-00	
E-26	Screw	1	148857-0-01		E-56	Bolt	1	148186-0-01	
E-27	Feed Bar Guide Block Shaft	1	148176-0-01		E-57	Washer	1	140208-0-01	
E-28	Screw	2	101706-0-03	181995-0-01	E-58	Wick	1	142674-0-00	
E-29	Set Collar	1			E-59	Feed Link Bushing	1	148404-0-01	
E-30	Steel Wire	1	140774-0-00						

061- (Thin) F. Knives and Presser Foot Mechanism



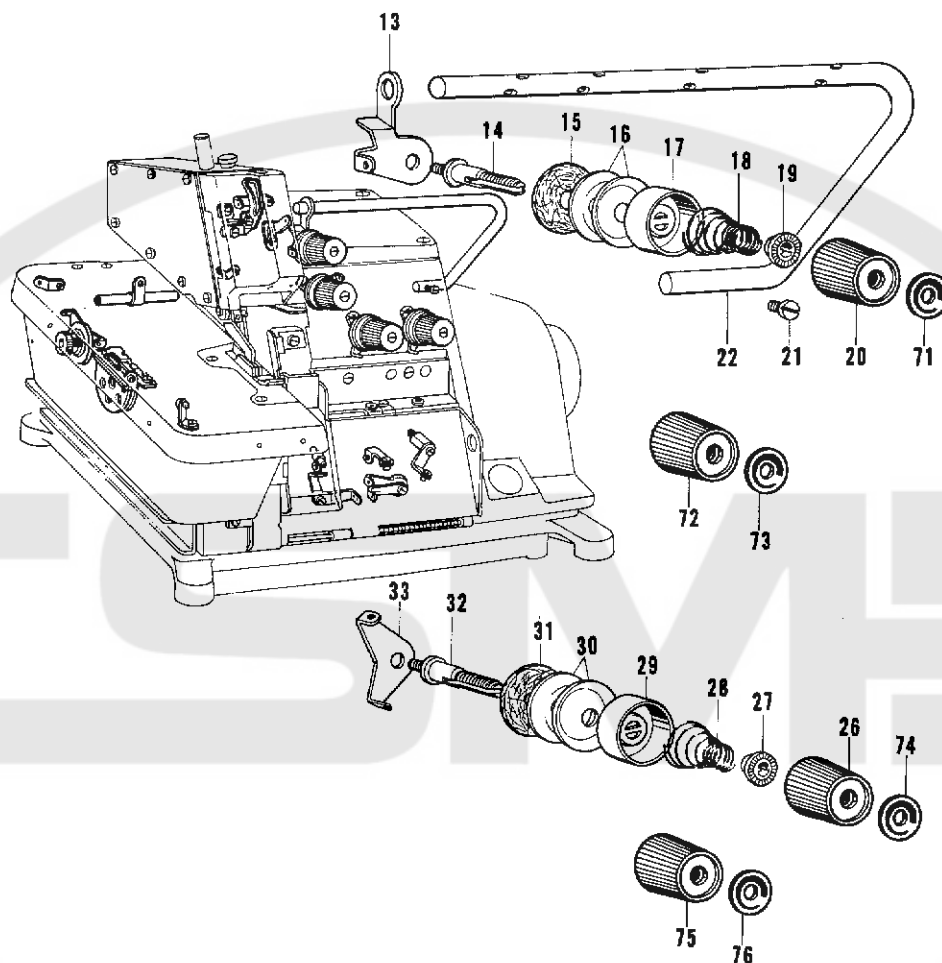
Ref. No.	Name of Part	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F-1	Screw	1	148147-0-01		F-38	Bushing Left	1	148196-0-00	
F-2	Screw	1	146427-0-01		F-39	Upper Knife Driving Arm	1	146580-0-01	
F-3	Presser Foot Supporter	1	148146-0-01		F-40	Nut	1	148281-0-01	
F-4	Spring Hook	1	148144-0-01		F-41	Bolt	1	144075-0-01	
F-5	Spring	1	148145-0-01		F-42	Upper Knife	1	148198-0-01	
F-6	Spring Hook	1	148144-0-01		F-43	Upper Knife Holder	1	144179-0-01	
F-7	Presser Foot Lifter Lever	1	148143-0-01		F-44	Screw	1	107407-0-03	
F-8	Screw	1	141528-0-01		F-45	Lower Knife Holding Plate	1	117515-0-01	
F-9	Nut	1	021680-2-02		F-46	Bolt	1	117516-0-01	
F-10	Screw	1	009681-4-12		F-47	Screw	2	009670-6-12	
F-11	Screw	1	148128-0-01		F-48	Lower Knife Holder Guide	1	146585-0-01	
F-12	Spring	1	148129-0-01		F-49	Lower Knife	1	112436-0-01	
F-13	Pin	1	148130-0-01		F-50	Lower Knife Holder	1	146583-0-01	
F-14	Screw	1	009680-7-12		F-51	Screw	1	107407-0-03	
F-15	Washer	1	148735-0-01		F-52	Bolt	1	017771-6-12	
F-16	Presser Bar Lever Shaft	1	148134-0-01		F-53	Lower Knife Holder Supporter	1	146582-0-01	
F-17	Packing	1	081002-6-70		F-54	Screw	1	102627-0-01	
F-18	Presser Bar Lever	1		148131-0-01	F-55	Spring	1	146584-0-01	
F-19	Roller	1	148133-0-01		F-56	Cap	1	146586-0-00	
F-20	Screw	1	104908-0-01		F-57	Lower Knife Holder Spring Stopper	1	140248-0-01	
F-21	Nut	1	100022-0-05		F-58	Screw	1	009680-7-12	
F-22	Presser Arm Rollar Shaft	1			F-59	Chip Guard (3)	1	142245-0-01	
F-23	Presser Arm Rollar	1		148346-0-01	F-60	Screw	1	009639-3-12	
F-24	Washer	1	148813-0-01		F-61	Stitch Tongue	1	142244-0-01	
F-25	Screw	1	009670-5-12		F-62	Screw	1	009639-3-12	
F-26	Screw	1	148139-0-01		F-63	Presser Front	1		148155-0-01
F-27	Presser Bar Lifter	1	148137-0-01		F-64	Pin	1	142243-0-01	
F-28	Spring	1	148138-0-01		F-65	Spring	1	142246-0-01	
F-29	Presser Bar Lifter Bracket	1	148136-0-01		F-66	Screw	1	142247-0-01	
F-30	Spring	2	100260-0-01		F-67	Main Presser Arm	1		
F-31	Set Collar	1	146581-0-01		F-68	Screw	2	009669-4-12	
F-32	Bushing Right	1	148197-0-00		F-69	Presser Arm Stopper	1	148148-0-01	
F-37	Bolt	1	017761-6-12		F-70	Pin	1	141393-0-01	

PARTS BOOK for BROTHER MA4-B581

Safety Stitch Sewing Machine

☆ Please correct as follows.

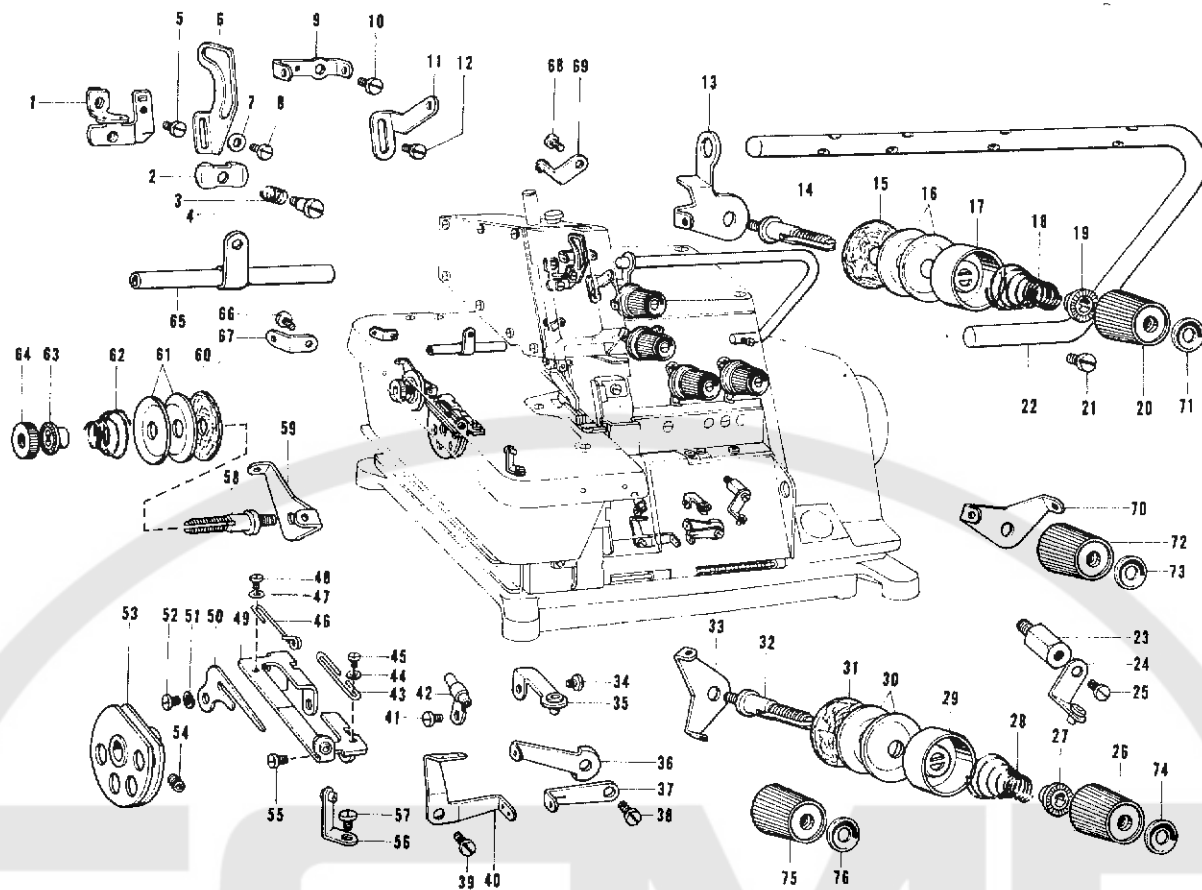
G. 061-○(Thin)
Threading



Page	Wrong				Right				
	Ref. No.	Name of Parts	Q'ty	Parts No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
7	G-20	Thread Tension Adjusting Nut	2	144106-0-02	G-20	Thread Tension Adjusting Nut	1	149566-0-01	149568-0-03
					G-71	Color Plate	1	147049-0-03	
					G-72	Thread Tension Adjusting Nut	1	149566-0-01	149568-0-01
					G-73	Color Plate	1	147049-0-01	
	G-26	Thread Tension Adjusting Nut	2	144106-0-02	G-26	Thread Tension Adjusting Nut	1	149566-0-01	149568-0-02
					G-74	Color Plate	1	147049-0-02	
					G-75	Thread Tension Adjusting Nut	1	149566-0-01	149568-0-04
					G-76	Color Plate	1	147049-0-04	



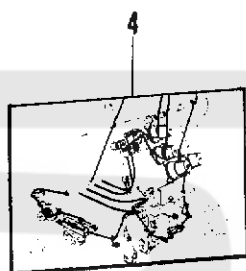
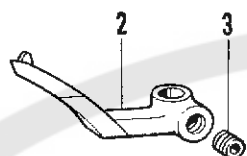
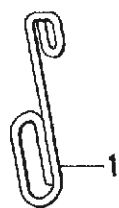
G. 061- (Thin) Threading



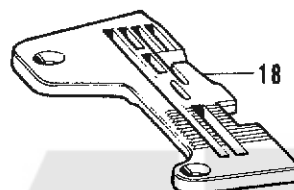
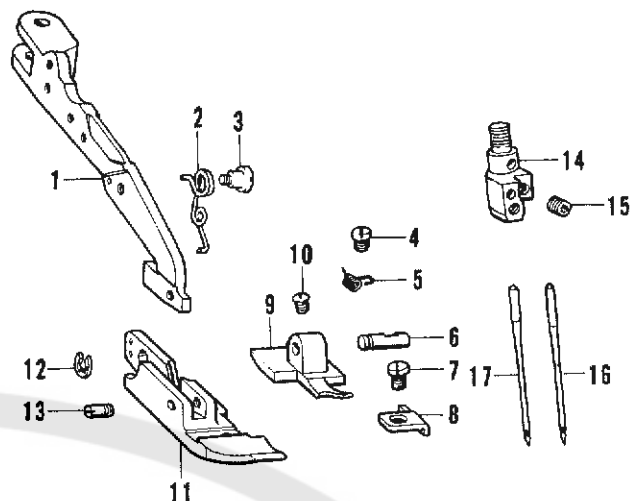
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G-1	Needle Thread Guide	1	147344-0-01		G-37	Under Looper Thread Take-up (R)	1	146653-0-01	
G-2	Needle Thread Guard	1	112300-0-01		G-38	Screw	1	009670-8-12	
G-3	Needle Thread Guard Spring	1	112299-0-01		G-39	Screw	1	009670-6-12	
G-4	Screw	1	112301-0-01		G-40	Looper Thread Take-up (L)	1	146634-0-01	
G-5	Screw	1	009670-6-12		G-41	Screw	1	122771-0-02	
G-6	Needle Thread Take-up	1	144108-0-01		G-42	Over Looper Thread Guide	1	142669-0-01	
G-7	Washer	1	105248-0-03		G-43	Thread Guide (R)	1	146663-0-01	
G-8	Screw	1	009669-3-12		G-44	Washer	1	025630-2-32	
G-9	Needle Thread Guide (A)	1	143757-0-01		G-45	Screw	1	001630-4-02	
G-10	Screw	1	009670-8-12		G-46	Thread Guide (L)	1	147272-0-01	
G-11	Chain Tension Control Stud	1	148255-0-01		G-47	Washer	1	025630-2-32	
G-12	Screw	1	009670-8-12		G-48	Screw	1	001630-4-02	
G-13	Thread Guide Supporter	1	146649-0-01		G-49	Chain Stitch Looper Base Plate Assembly	1	146928-0-01	
G-14	Looper Thread Tension Control Stud	2	110820-0-01		G-50	Thread Handler	1	146662-0-01	
G-15	Felt	2	110832-0-01		G-51	Washer	1	028350-2-43	
G-16	Tension Disc	4	145446-0-01		G-52	Screw	1	009670-4-12	
G-17	Tension Disc Washer	2	144103-0-02		G-53	Chain Stitch Looper Take-up	1	140290-0-01	
G-18	Spring	2	144104-0-01		G-54	Screw	2	014680-4-22	
G-19	Washer	2	144105-0-00		G-55	Screw	2	009669-4-12	
G-21	Screw	1	009681-4-12		G-56	Under Looper Thread Guide	1	146930-0-01	
G-22	Main Thread Guide	1	148253-0-01		G-57	Screw	1	009670-6-12	
G-23	Thread Guide Holder	1	148254-0-01		G-58	Thread Tension Control Stud	1	147148-0-01	
G-24	Under Looper Thread Guide	1	146926-0-01		G-59	Needle Thread Guide Plate	1	110813-0-01	
G-25	Screw	1	009670-6-12		G-60	Felt	1	110832-0-01	
G-27	Washer	2	144105-0-00		G-61	Tension Disc	2	145446-0-01	
G-28	Spring	2	144110-0-01		G-62	Thread Tension Adjusting Spring	1	147149-0-01	
G-29	Tension Disc Washer	2	144103-0-02		G-63	Washer	1	144105-0-00	
G-30	Tension Disc	4	145446-0-01		G-64	Upper Thread Tension Adjusting Nut	1	105230-0-01	
G-31	Felt	2	110832-0-01		G-65	Thread Guide Pipe Assembly	1	148256-0-01	
G-32	Looper Thread Tension Control Stud	2	110820-0-01		G-67	Thread Guide (A) for Chain Stitch Looper	1	140289-0-01	
G-33	Needle Thread Guide Plate	2	110813-0-01		G-66	Screw	1	009670-6-12	
G-35	Over Looper Thread Guide	1	146929-0-01		G-69	Thread Guide	1	146926-0-01	
G-34	Screw	1	009670-6-12		G-68	Screw	1	009670-6-12	
G-20	Thread Tension Adjusting Nut	1			G-70	Needle Thread Guide Plate	1	110813-0-01	
G-71	Color Plate	1	147049-0-03	149568-0-03	G-26	Thread Tension Adjusting Nut	1		149568-0-02
G-72	Thread Tension Adjusting Nut	1			G-74	Color Plate	1	147049-0-02	
G-73	Color	1	147049-0-01	149568-0-01	G-75	Thread Tension Adjusting Nut	1		
G-36	Over Looper Thread Take-up (R)	1	146652-0-01		G-76	Color Plate	1	147049-0-04	149568-0-04

K.062- Needle Width 2mm
(Thin)

L.063- Needle Width 3mm
(Thin, medium)



5
062-



19
063-

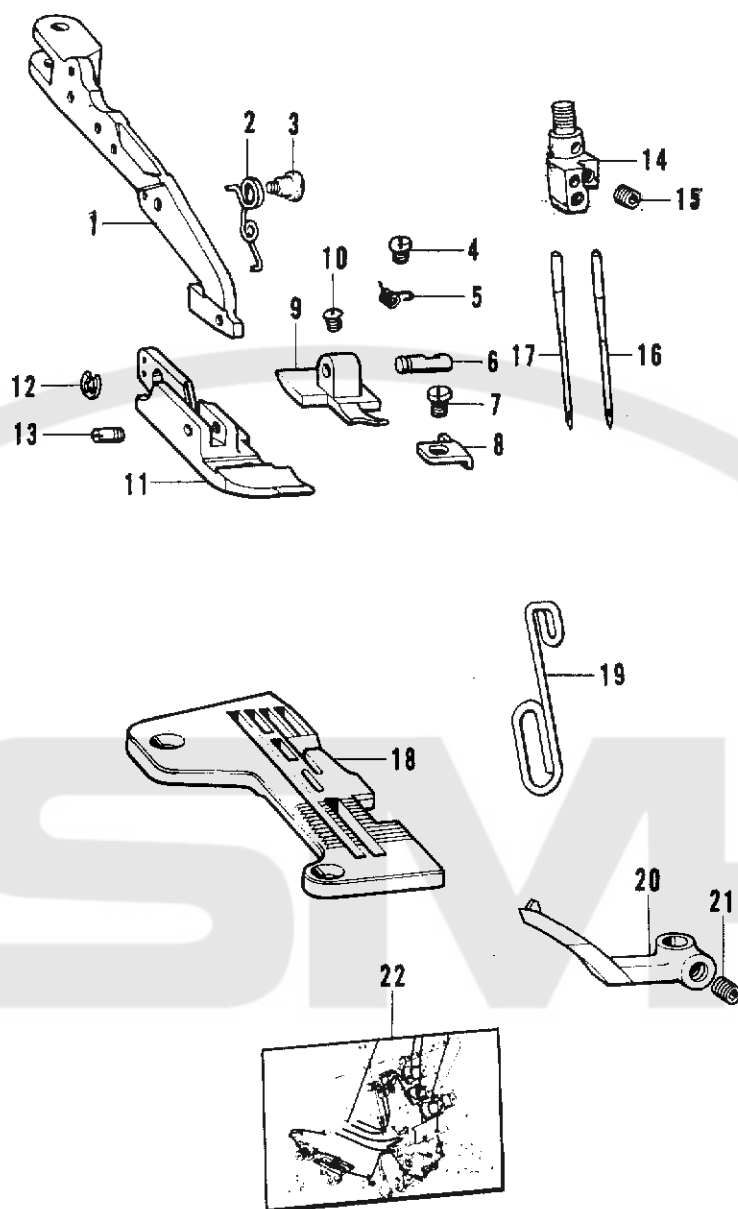
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
K-1	Needle Thread Take-up	1	142201-0-01	147935-0-01
K-2	Over Spreader	1		
K-3	Screw	1	014680-4-22	
K-4	Threading Diagram	1	148105-0-01	
K-5	Lavel	1		

All other parts except above-mentioned parts are the same as those for 061-.

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L 1	Presser Arm	1		148150-0-01
L 2	Spring	1	148152-0-01	
L 3	Stud Screw	1	146901-0-01	
L 4	Screw	1	122771-0-02	
L 5	Spring	1	146870-0-01	
L 6	Pin	1	146868-0-01	
L 7	Screw	1	105288-0-01	
L 8	Presser Foot (Front)	1	145147-0-01	
L 9	Presser Foot (Rear)	1		
L-10	Screw	1	105288-0-01	
L-11	Presser Foot	1		
L-12	Stop Ring	1	048020-3-42	
L-13	Screw	1	146865-0-01	
L-14	Needle Clamp 3	1		146489-0-01
L-15	Screw	2	146427-0-01	
L-16	Needle DC x 1	1	112297-0-14	
L-17	Needle DM x 13	1	140104-0-14	
L-18	Needle Plate	1		
L-19	Lavel	1		

All other parts except above-mentioned parts are the same as those for 061-.

M.064-○ Needle Width 3mm
(Thin, medium)



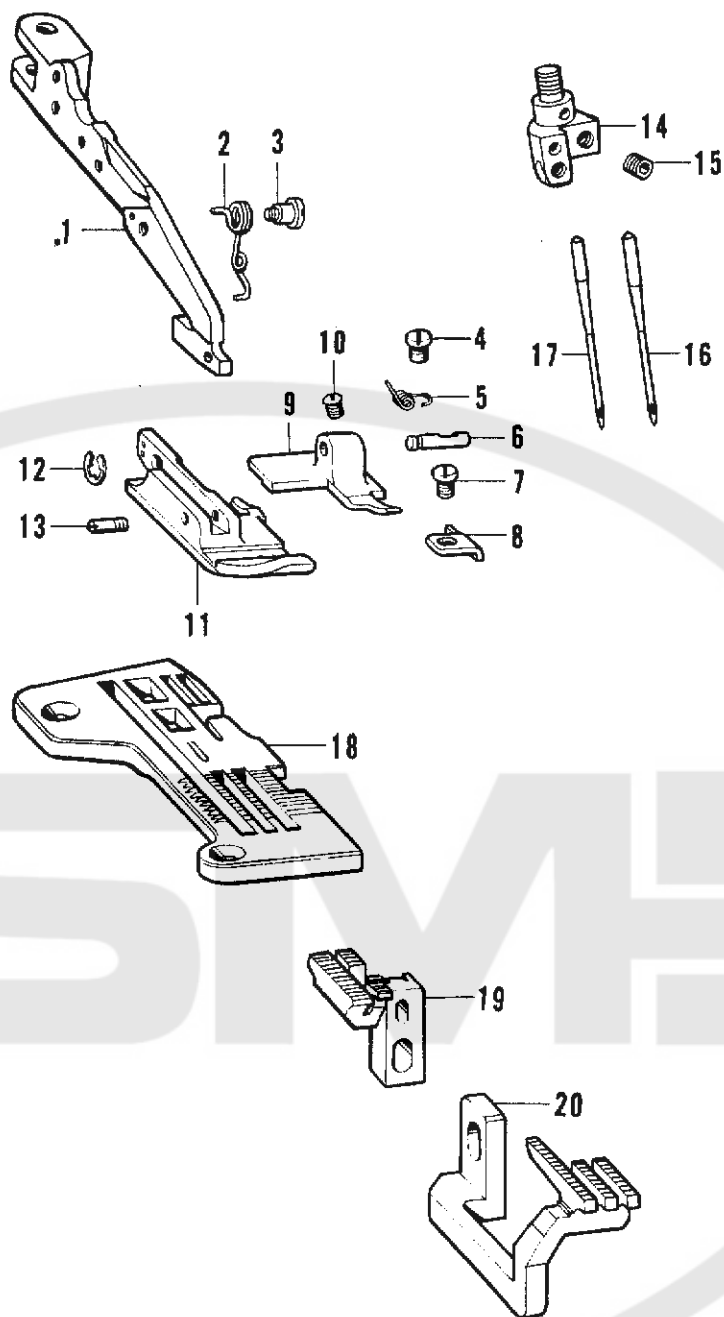
23

064-

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
M- 1	Presser Arm	1		148150-0-01	M-13	Screw	1	146865-0-01	148150-0-01
M- 2	Spring	1	148152-0-01		M-14	Needle Clamp 3	1		146489-0-01
M- 3	Screw	1	146901-0-01		M-15	Screw	2	146427-0-01	
M- 4	Screw	1	122771-0-02		M-16	Needle DC x 1	1	112297-0-14	
M- 5	Spring	1	146870-0-01		M-17	Needle DM x 13	1	140104-0-14	
M- 6	Pin	1	146868-0-01		M-18	Needle Plate	1		
M- 7	Screw	1	105288-0-01		M-19	Needle Thread Take-up	1	142201-0-01	
M- 8	Presser Foot (Front)	1	145147-0-01		M-20	Over Spreader	1		147935-0-01
M- 9	Presser Foot (Rear)	1			M-21	Screw	1	014680-4-22	
M-10	Screw	1	105288-0-01		M-22	Threading Diagram	1	148105-0-01	
M-11	Presser Foot	1			M-23	Level	1		
M-12	Stop Ring	1	048020-3-42						

All other parts except above-mentioned parts are the same as those for 061-○.

N.065- Needle Width 5mm (Medium, heavy)

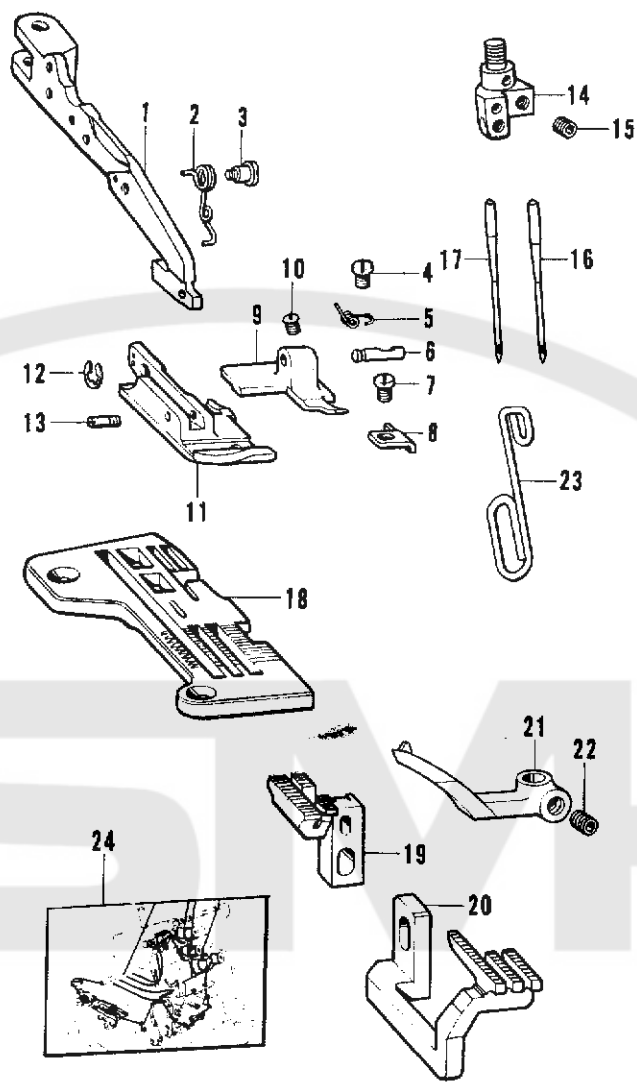


21
065-

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
N- 1	Presser Arm	1		148153-0-01	N-12	Stop Ring	1	048020-3-42	148153-0-01
N- 2	Spring	1	148152-0-01		N-13	Screw	1	140270-0-01	
N- 3	Stud Screw	1	146901-0-01		N-14	Needle Clamp 5	1		146491-0-01
N- 4	Screw	1	122771-0-02		N-15	Screw	2	146427-0-01	
N- 5	Spring	1	146870-0-01		N-16	Needle DC x 1	1	112297-0-16	140104-0-16
N- 6	Pin	1	146868-0-01		N-17	Needle DM x 13	1	140104-0-16	
N- 7	Screw	1	105288-0-01		N-18	Needle Plate	1		
N- 8	Presser Foot (Front)	1	145147-0-01		N-19	Main Feet Dog	1	146568-0-01	
N- 9	Presser Foot (Rear)	1			N-20	Differential Feed Dog	1	146573-0-01	
N-10	Screw	1	105288-0-01		N-21	Level	1		
N-11	Presser Foot	1							

All other parts except above-mentioned parts are the same as those for 061-.

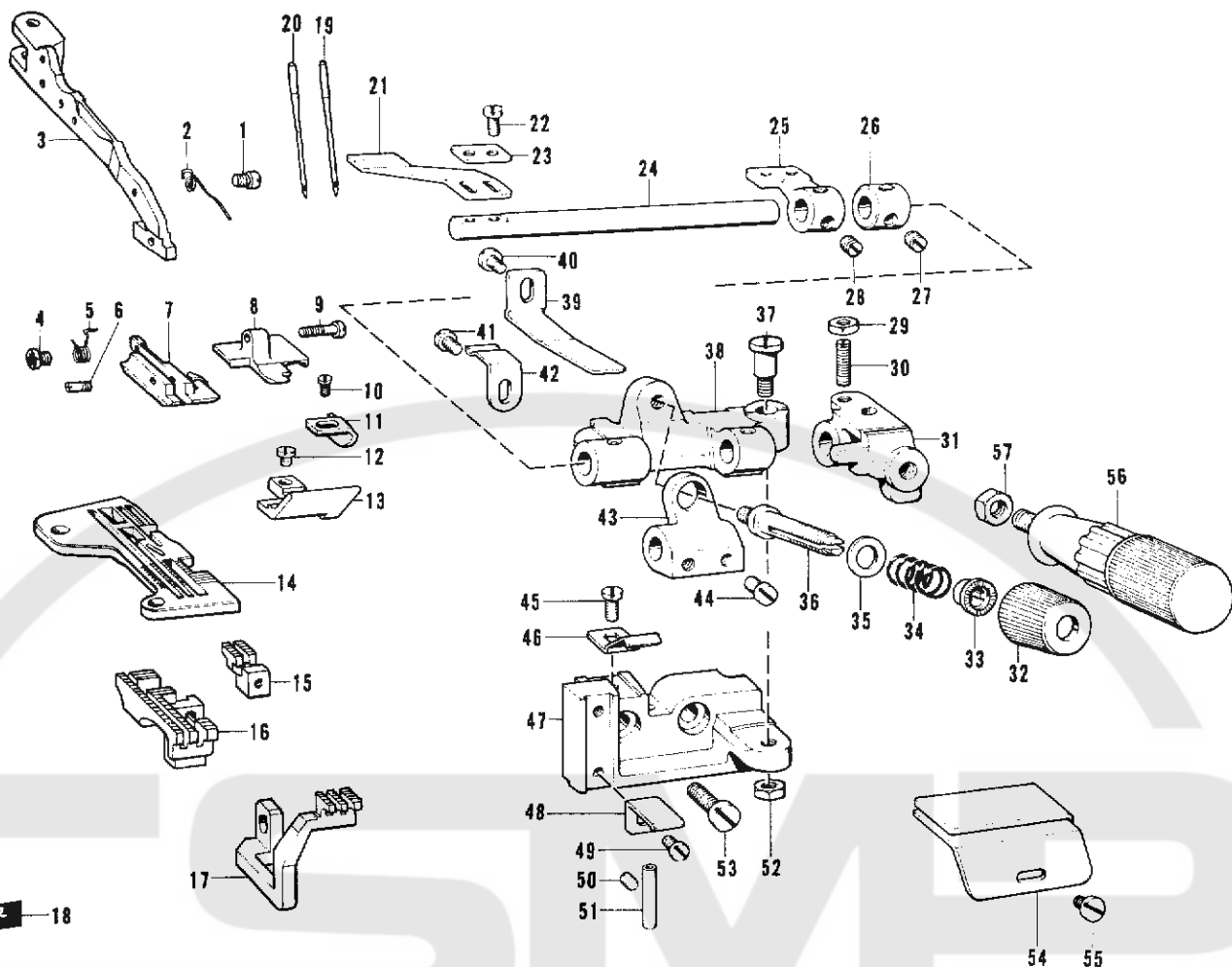
P. 066- Needle Width 5mm
(Medium, heavy)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
P- 1	Presser Arm	1		148153-0-01	P-14	Needle Clamp 5	1		146491-0-01
P- 2	Spring	1	148152-0-01		P-15	Screw	2	146427-0-01	
P- 3	Stud Screw	1	146901-0-01		P-16	Needle DC×1	1	112297-0-16	
P- 4	Screw	1	122771-0-02		P-17	Needle DM×13	1	140104-0-16	
P- 5	Spring	1	146870-0-01		P-18	Needle Plate	1		
P- 6	Pin	1	146868-0-01		P-19	Main Feed Dog	1	146568-0-01	
P- 7	Screw	1	105288-0-01		P-20	Differential Feed Dog	1	146573-0-01	
P- 8	Presser Foot (Front)	1	145147-0-01		P-21	Over Spreader	1		147935-0-01
P- 9	Presser Foot (Rear)	1			P-22	Screw	1	014680-4-22	
P-10	Screw	1	105288-0-01		P-23	Needle Thread Take-up	1	142201-0-01	
P-11	Presser Foot	1			P-24	Threading Diagram	1	148105-0-01	
P-12	Stop Ring	1	048020-3-42		P-25	Lavel	1		
P-13	Screw	1	140270-0-01						

All other parts except above-mentioned parts are the same as those for 061-.

Q.067 - Needle Width 2mm
(Thin, medium)

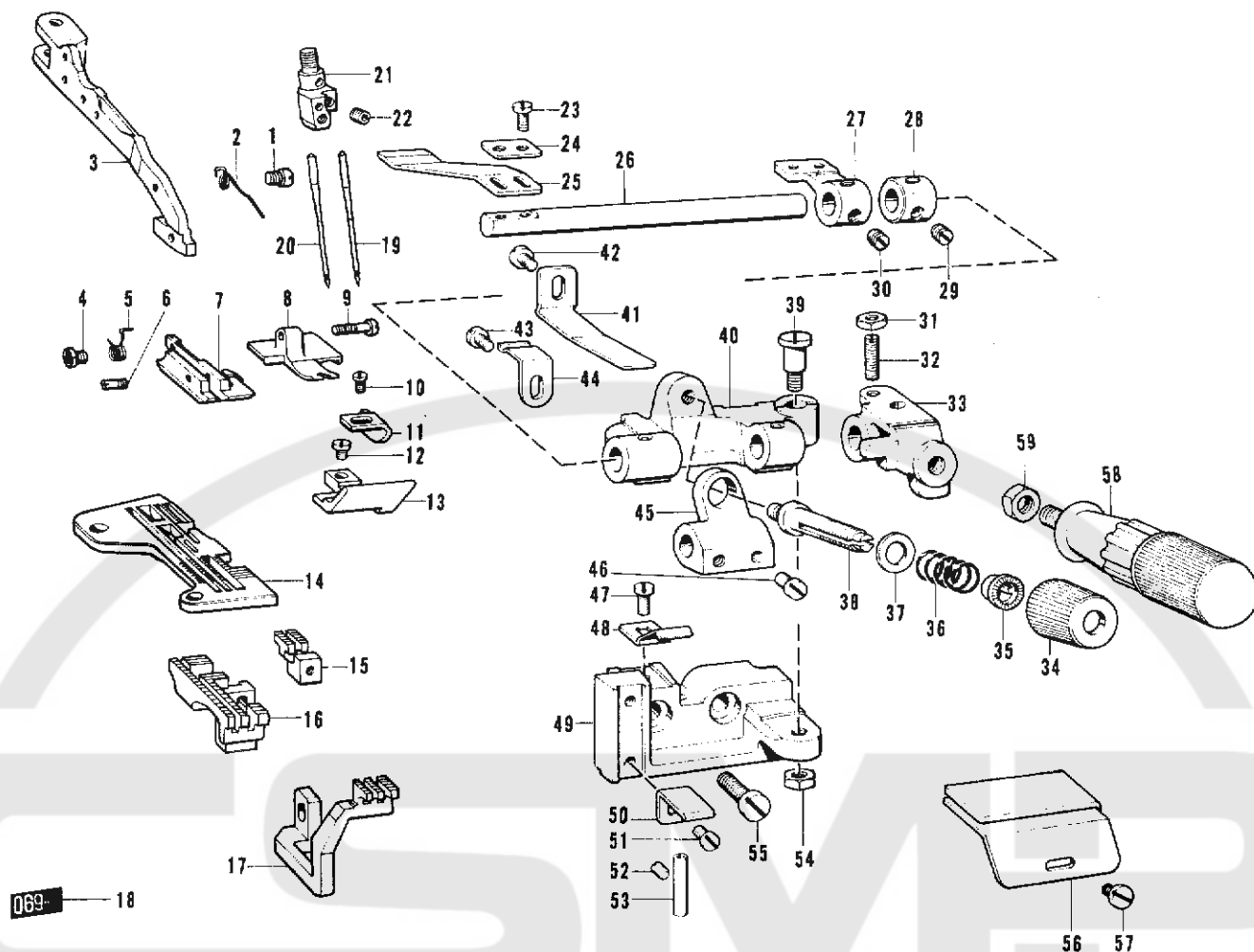


067 - 18

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Q- 1	Set Screw	1	140992-0-01	148158-0-01	Q-30	Screw	1	110230-0-01	146587-0-01
Q- 2	Spring	1	140993-0-01		Q-31	Handle Fixing Plate	1		
Q- 3	Presser Arm	1			Q-32	Thread Tension Adjusting Nut	1	144106-0-02	
Q- 4	Nut	1	140273-0-01		Q-33	Washer	1	144105-0-00	
Q- 5	Spring	1	140275-0-01		Q-34	Spring	1	144788-0-01	
Q- 6	Screw	1	140270-0-01		Q-35	Washer	1	025770-2-32	
Q- 7	Presser Foot	1	146879-0-01		Q-36	Looper Thread Tension Control Stud	1	110820-0-01	
Q- 8	Presser Foot (Rear)	1			Q-37	Screw	1	147933-0-01	
Q- 9	Screw	1	140272-0-01		Q-38	Bracket for Ruffling Blade	1		
Q-10	Screw	1	105288-0-01		Q-39	Spring	1	145811-0-01	
Q-11	Presser Foot	1	144778-0-01		Q-40	Screw	1	009680-6-12	
Q-12	Screw	1	009660-7-12		Q-41	Screw	1	001670-5-12	
Q-13	Presser Foot (U)	1			Q-42	Spring	1	144764-0-01	
Q-14	Needle Plate	1		146587-0-01	Q-43	Spring Bace	1		
Q-15	Chain Feed Dog	1	148189-0-01		Q-44	Screw	2	105163-0-01	
Q-16	Main Feed Dog	1	148190-0-01		Q-45	Screw	1	009680-6-12	
Q-17	Differential Feed Dog	1	146575-0-01		Q-46	Spring	1	145808-0-01	
Q-18	Lavel	1			Q-47	Ruffler Base	1		
Q-19	Needle DC×1	1	112297-0-14	181995-0-02	Q-48	Ruffling Blade Guide	2	145807-0-01	
Q-20	Needle DM×13	1	140104-0-14		Q-49	Screw	2	009680-8-12	
Q-21	Ruffling Blade	1	144783-0-01		Q-50	Screw	1	013679-4-12	
Q-22	Screw	2	009660-7-12		Q-51	Thread Guide Pipe	1	146592-0-01	
Q-23	Washer	1	144784-0-01		Q-52	Nut	1	021760-3-03	
Q-24	Ruffling Blade Base Shaft	1	145803-0-01		Q-53	Screw	2	009781-8-12	
Q-25	Lapper Base	1			Q-54	Ruffler Guide	1	144793-0-00	
Q-26	Set Collar	1			Q-55	Screw	1	112751-0-02	
Q-27	Screw	2	101706-0-01		Q-56	Handle	1	145809-0-01	
Q-28	Screw	2	101706-0-01		Q-57	Nut	1	021780-3-03	
Q-29	Nut	1	105234-0-03						

All other parts except above-mentioned parts are the same as those for 061-.

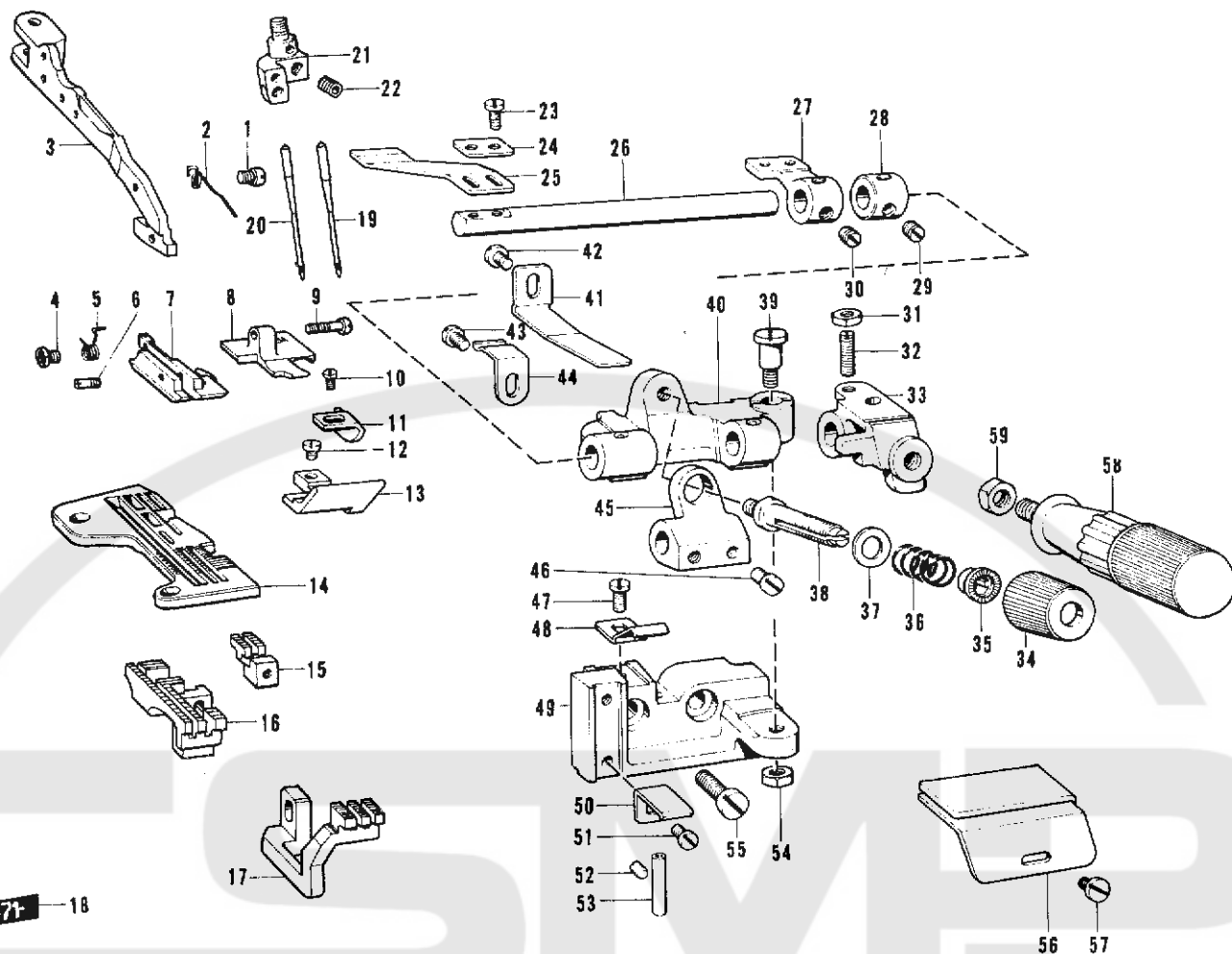
R.069- Needle Width 3mm (Thin, medium)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
R- 1	Set Screw	1	140992-0-01	148160-0-01	R-31	Nut	1	105234-0-03	146587-0-01
R- 2	Spring	1	140993-0-01		R-32	Screw	1	110230-0-01	
R- 3	Presser Arm	1			R-33	Handle Fixing Plate	1		
R- 4	Screw	1	140273-0-01		R-34	Thread Tension Adjusting Nut	1	144106-0-02	
R- 5	Spring	1	140275-0-01		R-35	Washer	1	144105-0-00	
R- 6	Screw	1	140270-0-01		R-36	Spring	1	144788-0-01	
R- 7	Presser Foot (E)	1			R-37	Washer	1	025770-2-32	
R- 8	Presser Foot (Rear)	1			R-38	Looper Thread Tension Control Stud	1	110820-0-01	
R- 9	Screw	1	140272-0-01		R-39	Screw	1	147933-0-01	
R-10	Screw	1	105288-0-01		R-40	Bracket for Ruffling Blade	1		
R-11	Presser Foot	1	144778-0-01	146489-0-01	R-41	Spring	1	145811-0-01	146587-0-01
R-12	Screw	1	009660-7-12		R-42	Screw	1	009680-6-12	
R-13	Presser Foot (L)	1			R-43	Screw	1	001670-5-12	
R-14	Needle Plate	1			R-44	Spring	1	144764-0-01	
R-15	Chain Feed Dog (D)	1	148189-0-01		R-45	Spring Base	1		
R-16	Main Feed Dog	1	148190-0-01		R-46	Screw	2	105163-0-01	
R-17	Differential Feed Dog	1	146575-0-01		R-47	Screw	1	009680-6-12	
R-18	Lavel	1			R-48	Ruffling Blade Base Spring	1	145808-0-01	
R-19	Needle DC×1	1	112297-0-14		R-49	Ruffler Base	1		
R-20	Needle DM×13	1	140104-0-14	146587-0-01	R-50	Ruffling Blade Guide	2	145807-0-01	181995-0-02
R-21	Needle Clamp	1			R-51	Screw	2	009680-8-12	
R-22	Screw	2	146427-0-01		R-52	Screw	1	013679-4-12	
R-23	Screw	2	009660-7-12		R-53	Thread Guide Pipe	1	146592-0-01	
R-24	Washer	1	144784-0-01		R-54	Nut	1	021760-3-03	
R-25	Ruffling Blade	1	144783-0-01		R-55	Screw	2	009781-8-12	
R-26	Ruffling Blade Base Shaft	1	145803-0-01		R-56	Ruffler Guide	1	144793-0-00	
R-27	Lapper Base	1			R-57	Screw	1	112751-0-02	
R-28	Set Collar	1			R-58	Handle	1	145809-0-01	
R-29	Screw	2	101706-0-01		R-59	Nut	1	021780-3-03	
R-30	Screw	2	101706-0-01						

All other parts except above-mentioned parts are the same as those for 061-.

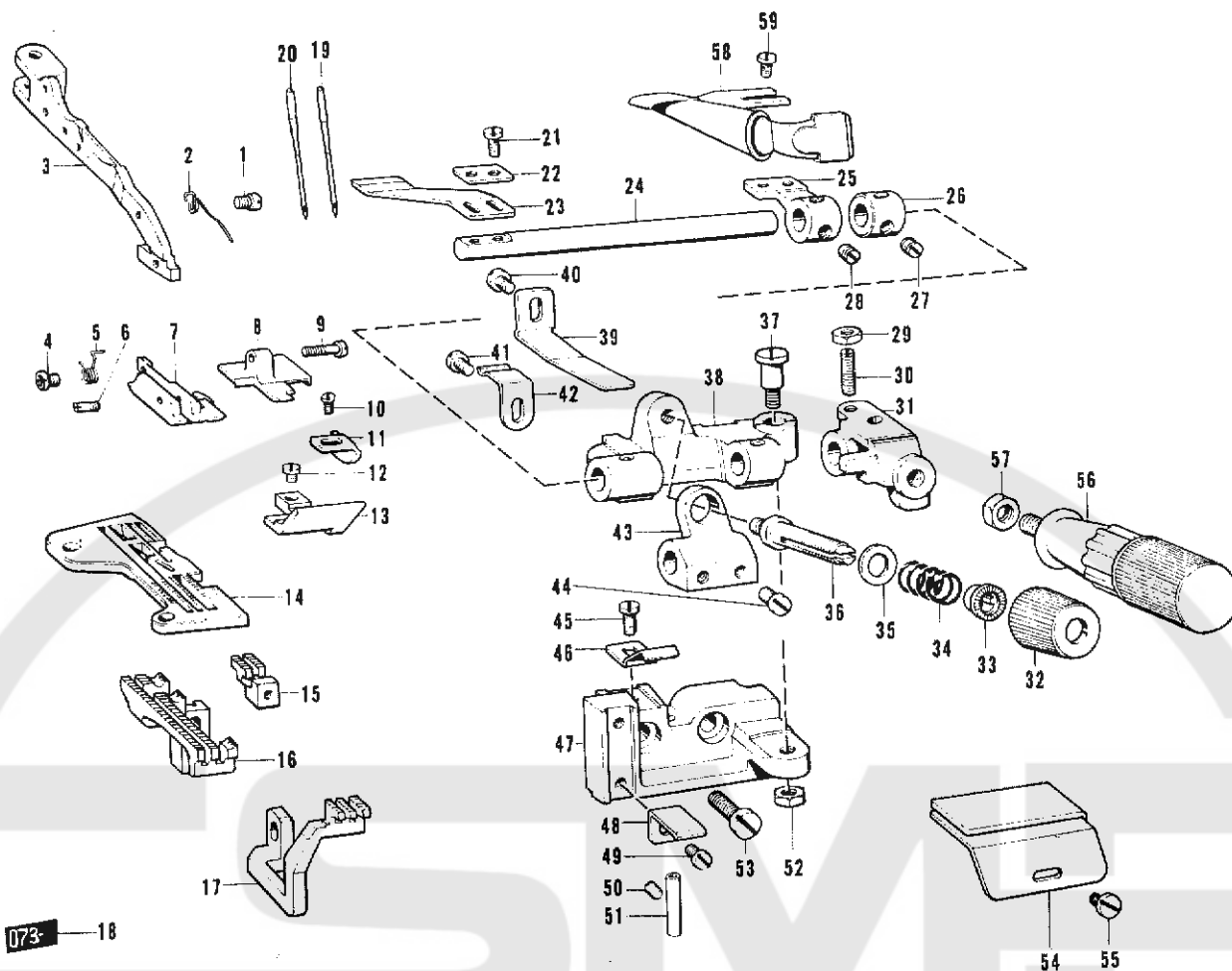
S.071 - Needle Width 5mm (Medium, heavy)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
S- 1	Set Screw	1	140992-0-01	148161-0-01	S-31	Nut	1	105234-0-03	146587-0-01
S- 2	Spring	1	140993-0-01		S-32	Screw	1	110230-0-01	
S- 3	Presser Arm	1			S-33	Handle Fixing Plate	1		
S- 4	Screw	1	140273-0-01		S-34	Thread Tension Adjusting Nut	1	144106-0-02	
S- 5	Spring	1	140275-0-01		S-35	Washer	1	144105-0-00	
S- 6	Screw	1	140270-0-01		S-36	Spring	1	144788-0-01	
S- 7	Presser Foot (D5)	1			S-37	Washer	1	025770-2-32	
S- 8	Presser Foot (Rear)	1			S-38	Looper Thread Tension Control Stud	1	110820-0-01	
S- 9	Screw	1	140272-0-01		S-39	Screw	1	147933-0-01	
S-10	Screw	1	105288-0-01		S-40	Bracket for Ruffling Blade	1		
S-11	Presser Foot	1	144778-0-01	146491-0-01	S-41	Spring	1	145811-0-01	146587-0-01
S-12	Screw	1	009660-7-12		S-42	Screw	1	009680-6-12	
S-13	Presser Foot (U)	1			S-43	Screw	1	001670-5-12	
S-14	Needle Plate	1			S-44	Spring	1	144764-0-01	
S-15	Chain Feed Dog (D)	1	148189-0-01		S-45	Spring Base	1		
S-16	Main Feed Dog	1	148191-0-01		S-46	Screw	2	105163-0-01	
S-17	Differential Feed Dog	1	146576-0-01		S-47	Screw	1	009680-6-12	
S-18	Lavel	1			S-48	Ruffling Blade Base Spring	1	145808-0-01	
S-19	Needle DC x 1	1	112297-0-14		S-49	Ruffler Base	1		
S-20	Needle DM x 13	1	140104-0-14		S-50	Ruffling Blade Guide	2	145807-0-01	
S-21	Needle Clamp	1		146587-0-01	S-51	Screw	2	009680-8-12	181995-0-02
S-22	Screw	2	146427-0-01		S-52	Screw	1	013679-4-12	
S-23	Screw	2	009660-7-12		S-53	Thread Guide Pipe	1	146592-0-01	
S-24	Washer	1	144784-0-01		S-54	Nut	1	021760-3-03	
S-25	Ruffling Blade	1	144783-0-01		S-55	Screw	2	009781-8-12	
S-26	Ruffling Blade Base Shaft	1	145803-0-01		S-56	Ruffler Guide	1	144793-0-00	
S-27	Lapper Base	1			S-57	Screw	1	112751-0-02	
S-28	Set Collar	1			S-58	Handle	1	145809-0-01	
S-29	Screw	2	101706-0-01		S-59	Nut	1	021780-3-03	
S-30	Screw	2	101706-0-01						

All other parts except above-mentioned parts are the same as those for 061-

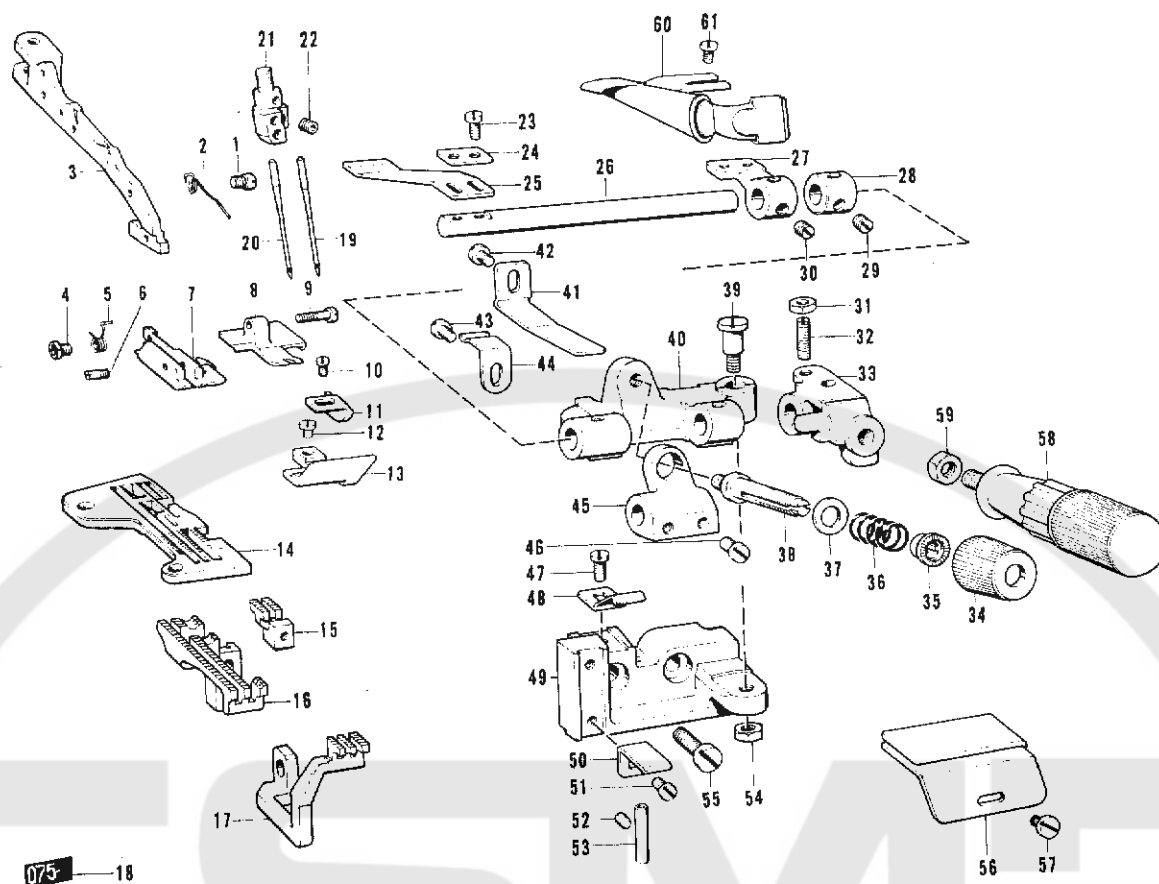
T.073-○ Needle Width 2mm. (Thin, medium Ruffling (W/Piping))



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T- 1	Set Screw	1	140992-0-01	148747-0-01	T-31	Handle Fixing Plate	1		
T- 2	Spring	1	140993-0-01		T-32	Thread Tension Adjusting Nut	1	144106-0-02	
T- 3	Presser Arm	1			T-33	Washer	1	144105-0-00	
T- 4	Screw	1	140273-0-01		T-34	Spring	1	144788-0-01	
T- 5	Spring	1	140275-0-01		T-35	Washer	1	025770-2-32	
T- 6	Screw	1	140270-0-01		T-36	Looper Thread Tension Control Stud	1	110820-0-01	
T- 7	Presser Foot	1			T-37	Screw	1	147933-0-01	
T- 8	Presser Foot (Rear)	1			T-38	Bracket for Ruffling Blade	1		
T- 9	Screw	1	140272-0-01		T-39	Spring	1	145811-0-01	
T-10	Screw	1	105288-0-01		T-40	Screw	1	009680-6-12	
T-11	Presser Foot	1	144778-0-01	146587-0-01	T-41	Screw	1	001670-5-12	
T-12	Screw	1	009660-7-12		T-42	Spring	1	144764-0-01	
T-13	Presser Foot (U)	1			T-43	Spring Base	1		
T-14	Needle Plate	1			T-44	Screw	2	105163-0-01	
T-15	Chain Feed Dog (D)	1	148189-0-01		T-45	Screw	1	009680-6-12	
T-16	Main Feed Dog	1	148750-0-01		T-46	Ruffling Blade Base Spring	1	145808-0-01	
T-17	Differential Feed Dog	1	146575-0-01		T-47	Ruffler Base	1		
T-18	Lavel	1			T-48	Ruffling Blade Guide	2	145807-0-01	
T-19	Needle DC×1	1	112297-0-14		T-49	Screw	2	009680-8-12	
T-20	Needle DM×13	1	140104-0-14	181995-0-02	T-50	Screw	1	013679-4-12	
T-21	Screw	2	009660-7-12		T-51	Thread Guide Pipe	1	146592-0-01	
T-22	Washer	1	144784-0-01		T-52	Nut	1	021760-3-03	
T-23	Ruffling Blade	1	144783-0-01		T-53	Screw	2	009781-8-12	
T-24	Ruffling Blade Base Shaft	1	145803-0-01		T-54	Ruffler Guide	1	144793-0-00	
T-25	Lapper Base	1			T-55	Screw	1	112751-0-02	
T-26	Set Collar	1			T-56	Handle	1	145809-0-01	
T-27	Screw	2	101706-0-01		T-57	Nut	1	021780-3-03	
T-28	Screw	2	101706-0-01		T-58	Lapper	1	147440-0-00	
T-29	Nut	1	105234-0-03		T-59	Screw	1	009680-6-12	
T-30	Screw	1	110230-0-01						

All other parts except above-mentioned parts are the same as those for 061-○.

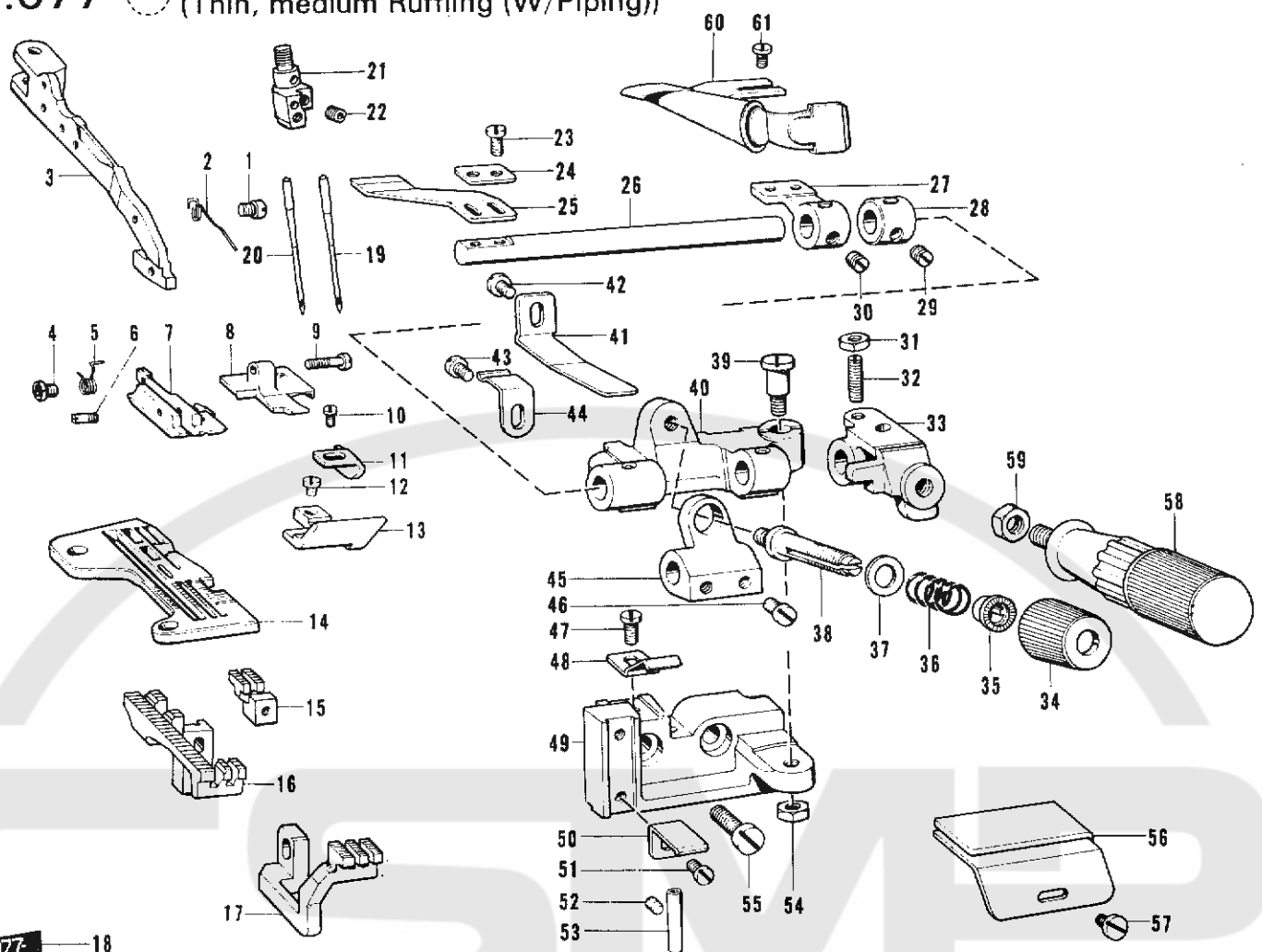
U.075-○ Needle Width 3mm (Thin, medium Ruffling (W/Piping))



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
U-1	Set Screw	1	140992-0-01	148748-0-01	U-32	Screw	1	110230-0-01	146587-0-01
U-2	Spring	1	140993-0-01		U-33	Handle Fixing Plate	1		
U-3	Presser Arm	1			U-34	Thread Tension Adjusting Nut	1	144106-0-02	
U-4	Screw	1	140273-0-01		U-35	Washer	1	144105-0-00	
U-5	Spring	1	140275-0-01		U-36	Spring	1	144788-0-01	
U-6	Screw	1	140270-0-01		U-37	Washer	1	025770-2-32	
U-7	Presser Foot	1			U-38	Looper Thread Tension Control Stud	1	110820-0-01	
U-8	Presser Foot (Rear)	1			U-39	Screw	1	147933-0-01	
U-9	Screw	1	140272-0-01		U-40	Bracket for Ruffling Blade	1		
U-10	Screw	1	105288-0-01		U-41	Spring	1	145811-0-01	
U-11	Presser Foot	1	144778-0-01		U-42	Screw	1	009680-6-12	
U-12	Screw	1	009660-7-12		U-43	Screw	1	001670-5-12	
U-13	Presser Foot (U)	1		146489-0-01	U-44	Spring	1	144764-0-01	
U-14	Needle Plate	1			U-45	Spring Base	1		
U-15	Chain Feed Dog (D)	1	148189-0-01		U-46	Screw	2	105163-0-01	
U-16	Main Feed Dog	1	148751-0-01		U-47	Screw	1	009680-6-12	
U-17	Differential Feed Dog	1	146575-0-01	146587-0-01	U-48	Ruffling Blade Base Spring	1	145808-0-01	
U-18	Lavel	1			U-49	Ruffler Base	1		
U-19	Needle DC×1	1	112297-0-14		U-50	Ruffling Blade Guide	2	145807-0-01	
U-20	Needle DM×13	1	140104-0-14		U-51	Screw	2	009680-8-12	
U-21	Needle Clamp 3	1		181995-0-02	U-52	Screw	1	013679-4-12	
U-22	Screw	2	146427-0-01		U-53	Thread Guide Pipe	1	146592-0-01	
U-23	Screw	2	009660-7-12		U-54	Nut	1	021760-3-03	
U-24	Washer	1	144784-0-01		U-55	Screw	2	009781-8-12	
U-25	Ruffling Blade	1	144783-0-01	146587-0-01	U-56	Ruffler Guide	1	144793-0-00	
U-26	Ruffling Blade Base Shaft	1	145803-0-01		U-57	Screw	1	112751-0-02	
U-27	Lapper Base	1			U-58	Handle	1	145809-0-01	
U-28	Set Collar	1			U-59	Nut	1	021780-3-03	
U-29	Screw	2	101706-0-01	146587-0-01	U-60	Lapper	1	147440-0-00	
U-30	Screw	2	101706-0-01		U-61	Screw	1	009680-6-12	
U-31	Nut	1	105234-0-03						

All other parts except above-mentioned parts are the same as those for 061-○.

V.077- Needle Width 5mm (Thin, medium Ruffling (W/Piping))

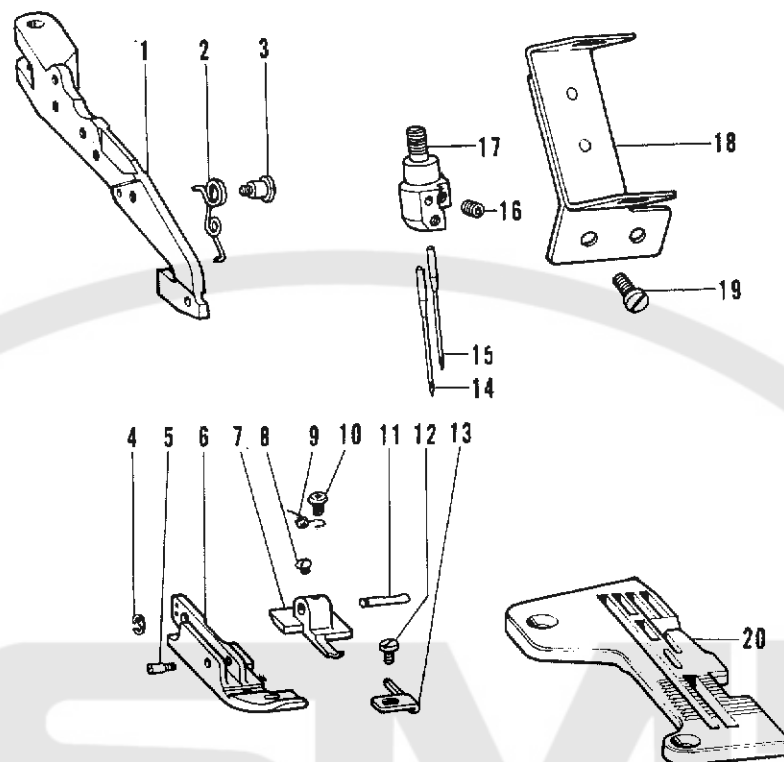


077-18

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
V-1	Set Screw	1	140992-0-01	148749-0-01	V-32	Screw	1	110230-0-01	146587-0-01
V-2	Spring	1	140993-0-01		V-33	Handle Fixing Plate	1		
V-3	Presser Arm	1			V-34	Thread Tension Adjusting	1	144106-0-02	
V-4	Screw	1	140273-0-01		V-35	Washer	1	144105-0-00	
V-5	Spring	1	140275-0-01		V-36	Spring	1	144788-0-01	
V-6	Screw	1	140270-0-01		V-37	Washer	1	025770-2-32	
V-7	Presser Foot	1			V-38	Looper Thread Tension Control Stud	1	110820-0-01	
V-8	Presser Foot (Rear)	1			V-39	Screw	1	147933-0-01	
V-9	Screw	1	140272-0-01		V-40	Bracket for Ruffling Blade	1		
V-10	Screw	1	105288-0-01		V-41	Spring	1	145811-0-01	
V-11	Presser Foot	1	144778-0-01		V-42	Screw	1	009680-6-12	
V-12	Screw	1	009660-7-12		V-43	Screw	1	001670-5-12	
V-13	Presser Foot (U)	1			V-44	Spring	1	144764-0-01	
V-14	Needle Plate	1		146491-0-01	V-45	Spring Base	1		
V-15	Chain Feed Dog (D)	1	148189-0-01		V-46	Screw	2	105163-0-01	
V-16	Main Feed Dog	1	148752-0-01		V-47	Screw	1	009680-6-12	
V-17	Differential Feed Dog	1	146575-0-01		V-48	Ruffling Blade Base Spring	1	145808-0-01	
V-18	Lavel	1		146587-0-01	V-49	Ruffler Base	1		
V-19	Needle DC×1	1	112297-0-14		V-50	Ruffling Blade Guide	2	145807-0-01	
V-20	Needle DM×13	1	140104-0-14		V-51	Screw	2	009680-8-12	
V-21	Needle Clamp 3	1			V-52	Screw	1	013679-4-12	
V-22	Screw	2	146427-0-01	181995-0-02	V-53	Thread Guide Pipe	1	146592-0-01	
V-23	Screw	2	009660-7-12		V-54	Nut	1	021760-3-03	
V-24	Washer	1	144784-0-01		V-55	Screw	2	009781-8-12	
V-25	Ruffling Blade	1	144783-0-01		V-56	Ruffler Guide	1	144793-0-00	
V-26	Ruffling Blade Base Shaft	1	145803-0-01		V-57	Screw	1	112751-0-02	
V-27	Lapper Base	1			V-58	Handle	1	145809-0-01	
V-28	Set Collar	1			V-59	Nut	1	021780-3-03	
V-29	Screw	2	101706-0-01		V-60	Lapper	1	147440-0-00	
V-30	Screw	2	101706-0-01		V-61	Screw	1	009680-6-12	
V-31	Nut	1	105234-0-03						

All other parts except above-mentioned parts are the same as those for 061-.

W.081- Needle Width 3mm
(Thin, medium taping)

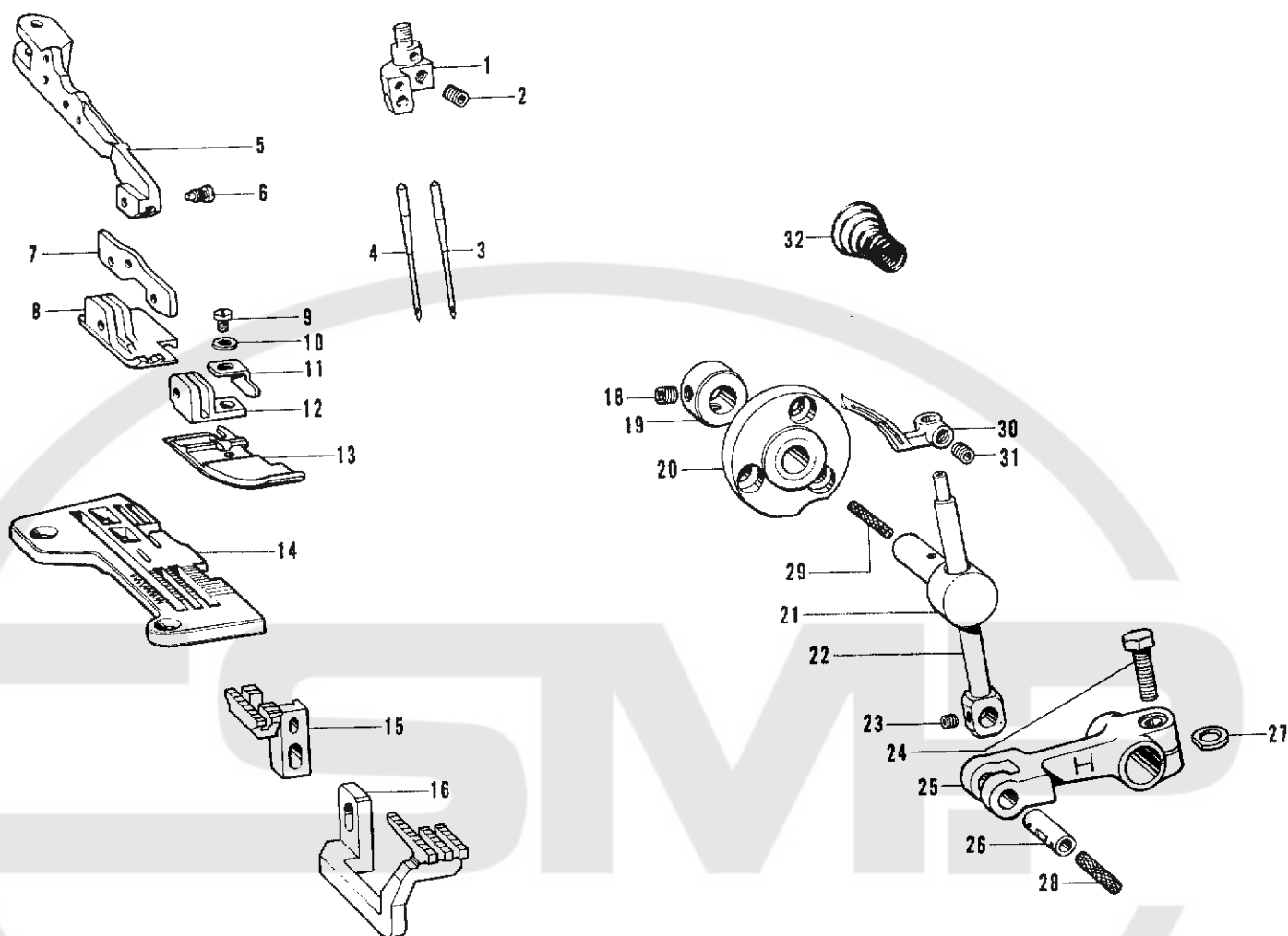


081-21

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
W- 1	Presser Arm	1		148162-0-01	W-12	Screw	1	105288-0-01	148162-0-01
W- 2	Spring	1	148152-0-01		W-13	Presser Foot (Front)	1	145147-0-01	
W- 3	Stud Screw	1	146901-0-01		W-14	Needle DM×13	1	140104-0-14	
W- 4	Stop Ring	1	048020-3-42		W-15	Needle DC×1	1	112297-0-14	
W- 5	Screw	1	146865-0-01		W-16	Screw	2	146427-0-01	146489-0-01
W- 6	Presser Foot	1			W-17	Needle Clamp 3	1		
W- 7	Presser Foot (Rear)	1			W-18	Tape Guide	1	146883-0-01	
W- 8	Screw	1	105288-0-01		W-19	Screw	2	009669-4-12	
W- 9	Spring	1	146870-0-01		W-20	Needle Plate	1		
W-10	Screw	1	122771-0-02		W-21	Lavel	1		
W-11	Pin	1	146868-0-01						

All other parts except above-mentioned parts are the same as those for 061 .

W:087- Needle Width 5mm
(Extra heavy)

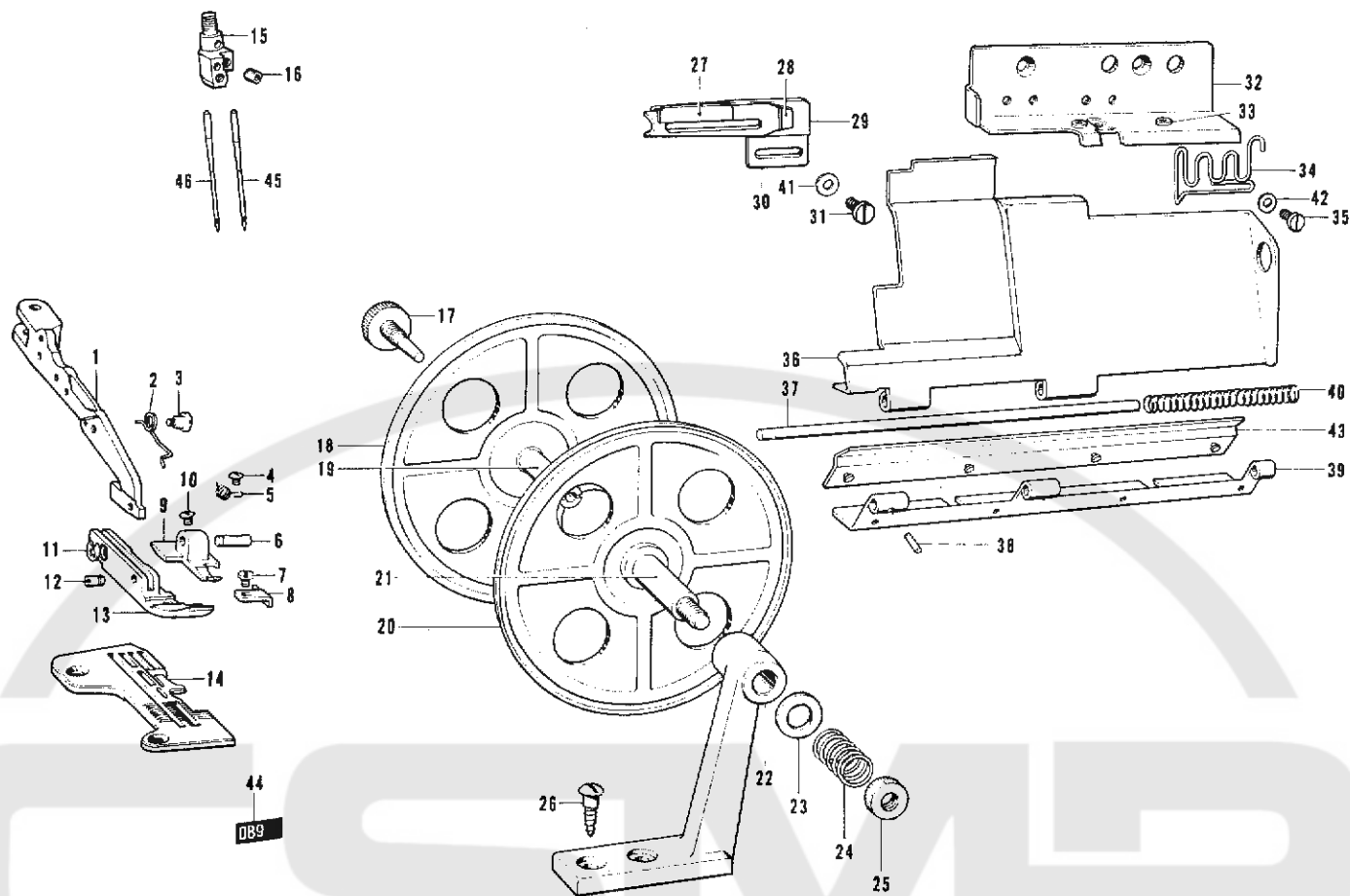


087- 17

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
W:1	Needle Clamp 5	1		146491-0-01	W:17	Lavel	1		
W:2	Screw	1	146427-0-01		W:18	Screw	2	014680-4-22	
W:3	Needle DC×1	1	112297-0-21		W:19	Set Collar	1		
W:4	Needle DM×13	1	140104-0-21		W:20	Over Looper Holder Guide Base	1		
W:5	Presser Foot	1			W:21	Over Looper Holder Guide Block	1		
W:6	Screw	3	148015-0-01		W:22	Over Looper Holder	1		
W:7	Presser Foot Supporter	1	148016-0-01		W:23	Screw	1	146427-0-01	148217-0-01
W:8	Presser Foot (Rear)	1			W:24	Bolt	1	017761-6-12	
W:9	Screw	1	009660-0-12	148260-6-01	W:25	Over Looper Driving Lever	1		
W:10	Washer	1	025030-2-32		W:26	Over Looper Holder Pin	1		
W:11	Presser Foot (Front)	1	148020-0-01		W:27	Spacer	1	148783-0-01	
W:12	Presser Foot Supporter	1	148017-0-01		W:28	Wick	1	108809-0-01	
W:13	Presser Foot	1			W:29	Wick	1	148249-0-00	
W:14	Needle Plate	1			W:30	Over Looper	1		
W:15	Main Feed Dog	1	146569-0-01		W:31	Screw	1	014680-4-22	147973-0-01
W:16	Differential Feed Dog	1	146574-0-01		W:32	Spring	2	148851-0-01	

All other parts except above-mentioned parts are the same as those for 061-.

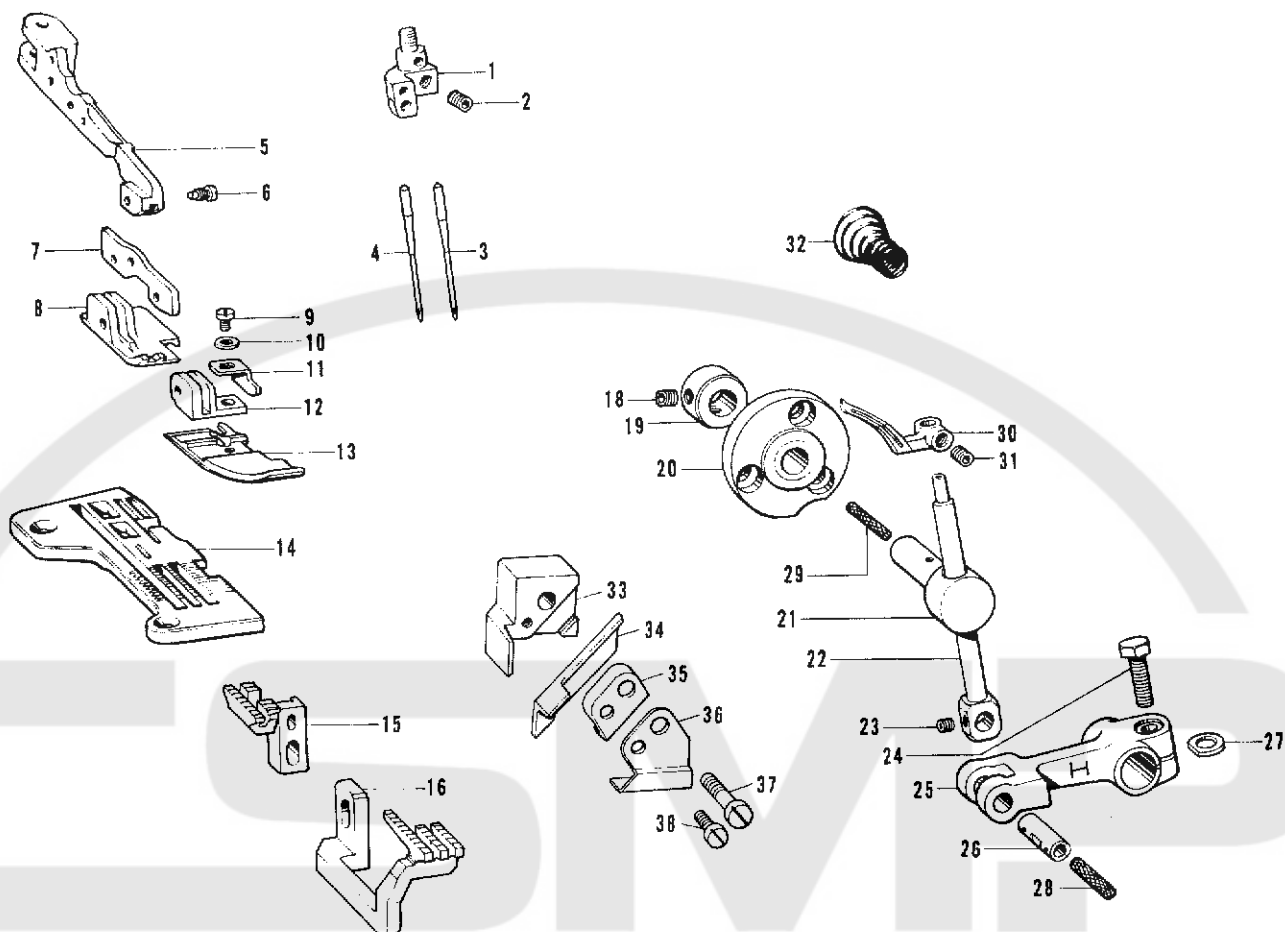
a. 089-○ Needle Width 3 mm
(Thin, medium binding)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
a-1	Presser Arm	1		148263-0-01	a-24	Spring	1	108495-0-01	143767-0-02
a-2	Spring	1	148152-0-01		a-25	Tension Control Nut	1	100136-0-01	
a-3	Stud Screw	1	146901-0-01		a-26	Screw	2	101118-0-01	
a-4	Screw	1	122771-0-02		a-27	Lapper F	1		147373-0-00
a-5	Spring	1	146870-0-01		a-28	Lapper B	1		
a-6	Pin	1	146868-0-01		a-29	Lapper Body	1		
a-7	Screw	1	105288-0-01		a-30	Cloth Cover Plate	1		
a-8	Presser Foot (Front)	1	147371-0-01		a-31	Screw	2	009670-5-12	147367-0-01
a-9	Presser Foot (Rear)	1			a-41	Washer	2	025350-3-32	
a-10	Screw	1	105288-0-01		a-32	Supporter for Front Cover	1		
a-11	Stop Ring	1	048020-3-42	146489-0-01	a-33	Thread Bushing	2	146924-0-00	
a-12	Screw	1	146865-0-01		a-34	Tape Guide	1	147377-0-01	148989-0-01
a-13	Presser Foot	1		143978-0-01	a-42	Washer	2	025350-3-32	
a-14	Needle Plate	1			a-35	Screw	2	009670-5-12	
a-15	Needle Clamp 3	1		143976-0-01	a-36	Front Cover	1		
a-16	Screw	2	146427-0-01		a-37	Shaft for Front Cover	1	146441-0-00	
a-17	Screw	1	143980-0-01	143767-0-02	a-38	Pin	1	047140-8-42	
a-18	Tape Winder Wheel (L)	1			a-39	Front Cover Hinge	1	146440-0-01	
a-19	Tape Winder Wheel Shaft (L)	1			a-40	Spring	1	146442-0-01	
a-20	Tape Winder Wheel (R)	1			a-43	Hinge Cover	1	148984-0-01	
a-21	Tape Winder Wheel Shaft (R)	1			a-44	Lavel	1		
a-22	Tape Winder Bracket	1	143750-0-02		a-45	Needle DC×1	1	112297-0-14	
a-23	Washer	1	108494-0-01		a-46	Needle DM×13	1	140104-0-14	

★All other parts except above-mentioned parts are the same as those for 061-○

b.092- Needle Width 5mm
(Extra heavy)

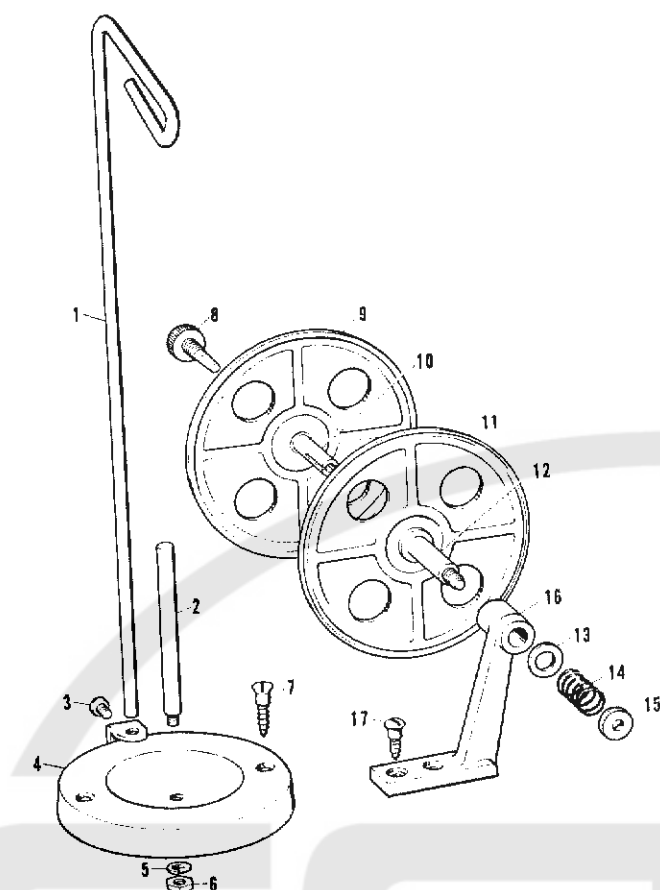


092- 17

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
b- 1	Needle Clamp 5	1		146491-0-01	b-20	Over Looper Holder Guide Base	1		148217-0-01
b- 2	Screw	1	146427-0-01		b-21	Over Looper Holder Guide Block	1		
b- 3	Needle DC×1	1	112297-0-21		b-22	Over Looper Holder	1		
b- 4	Needle DM×13	1	140104-0-21		b-23	Screw	1	146427-0-01	
b- 5	Presser Foot	1		148260-0-01	b-24	Bolt	1	017761-6-12	148217-0-01
b- 6	Screw	3	148015-0-01		b-25	Over Looper Driving Lever	1		
b- 7	Presser Foot Supporter	1	148016-0-01		b-26	Over Looper Holder Pin	1		
b- 8	Presser Foot (Rear)	1			b-27	Spacer	1	148783-0-01	
b- 9	Screw	1	009660-6-12	148217-0-01	b-28	Wick	1	108809-0-01	147937-0-01
b-10	Washer	1	025030-2-32		b-29	Wick	1	148249-0-00	
b-11	Presser Foot (Front)	1	148020-0-01		b-30	Over Looper	1		
b-12	Presser Foot Supporter	1	148017-0-01		b-31	Screw	1	014680-4-22	
b-13	Presser Foot	1			b-32	Spring	2	148851-0-01	
b-14	Needle Plate	1			b-33	Upper Knife Holder	1	148345-0-01	
b-15	Main Feed Dog	1	146569-0-01		b-34	Upper Knife	1	148342-0-01	
b-16	Differential Feed Dog	1	146574-0-01		b-35	Upper Knife Presser	1	148343-0-01	
b-17	Lavel	1			b-36	Upper Knife Presser Plate	1	148344-0-01	
b-18	Screw	2	014680-4-22	148217-0-01	b-37	Screw	1	102424-0-03	
b-19	Set Collar	1			b-38	Screw	1	009671-0-14	

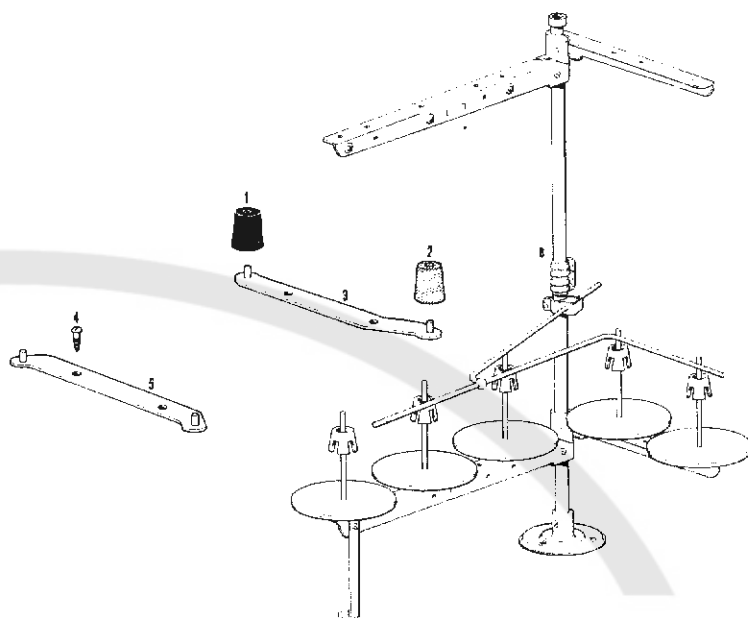
All other parts except above-mentioned parts are the same as those for 061-.

X. Cord Guide



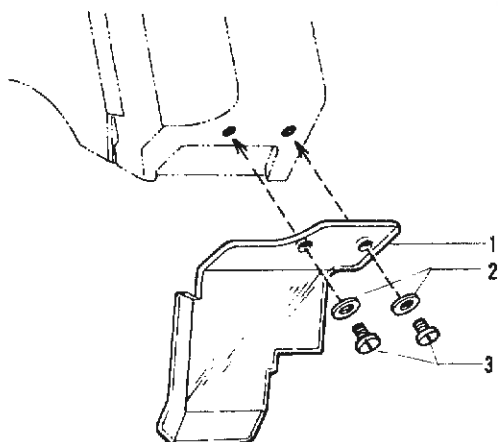
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
X- 1	Thread Guide Stud	1	109853-0-01	109854-0-01
X- 2	Spool Stand	1	100444-0-02	
X- 3	Screw	1	100080-0-02	
X- 4	Disc for Spool	1	109852-0-01	
X- 5	Washer	1	028050-2-42	181031-0-01
X- 6	Nut	1	110161-0-03	
X- 7	Screw	2	100447-0-01	143978-0-01
X- 8	Screw	1	143980-0-01	
X- 9	Tape Winder Wheel (L)	1		143976-0-01
X-10	Tape Winder Wheel Shaft (L)	1		
X-11	Tape Winder Wheel (R)	1		143767-0-02
X-12	Tape Winder Wheel Shaft (R)	1		
X-13	Washer	1	108494-0-01	143767-0-02
X-14	Spring	1	108495-0-01	
X-15	Tension Control Nut	1	100136-0-01	
X-16	Tape Winder Bracket	1	143750-0-02	
X-17	Screw	2	101118-0-01	

Z. Machine Head Plate and Spool Stand



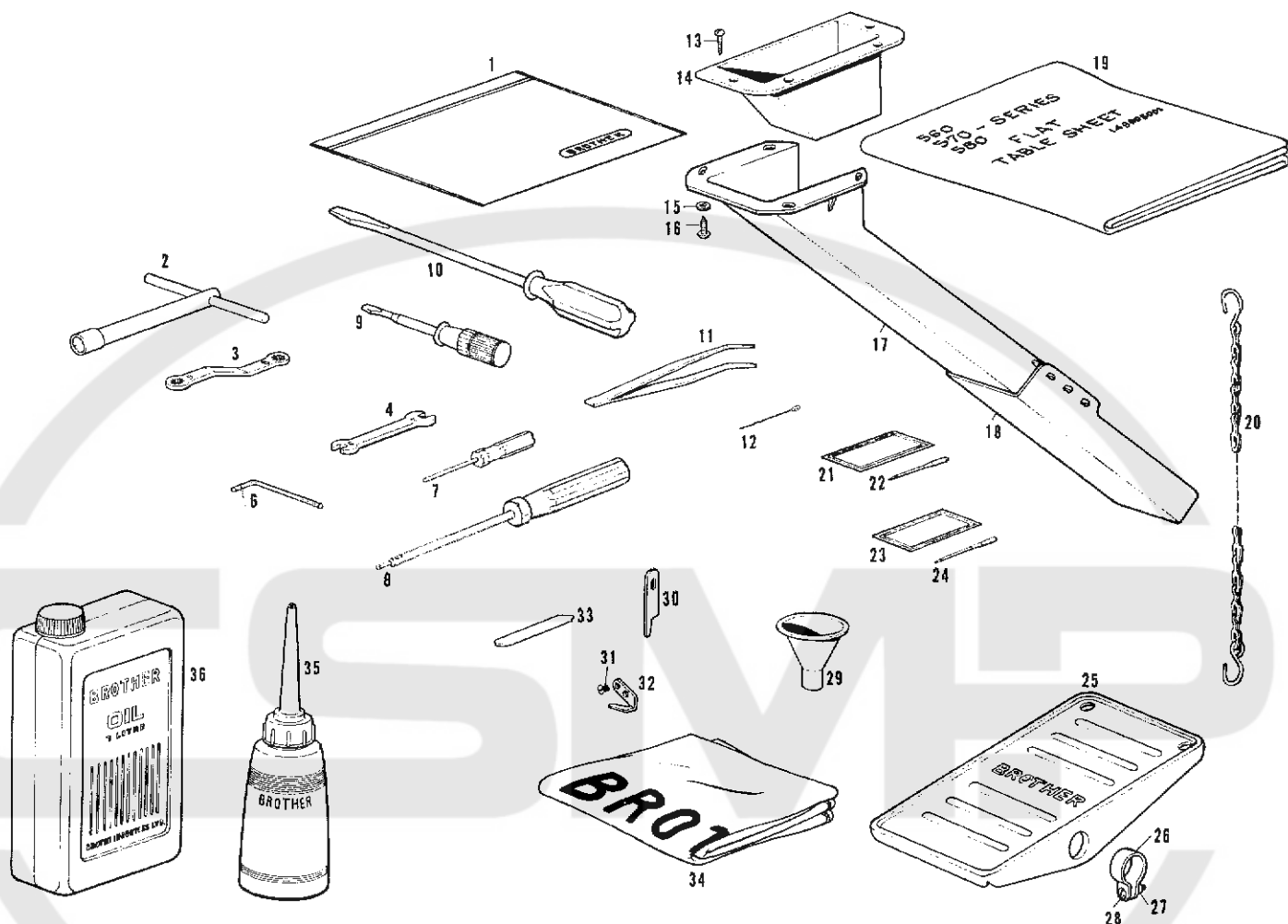
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z-1	Rubber Cushion	1	147919-0-01	
Z-2	Rubber Cushion	3	147919-0-02	
Z-3	Cushion Base (Right)	1	148290-0-01	
Z-4	Screw	4	034151-6-03	
Z-5	Cushion Base (Left)	1	148292-0-01	
Z-8	Cotton Stand Assembly	1	150162-0-01	

Z'. Accessories



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z'-1	Eye Guard	1		151017-0-01
Z'-2	Washer	2	025030-2-32	
Z'-3	Screw	2	009660-5-12	

Y. Accessories



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Y- 1	Vinyl Bag		122991-0-01		Y-20	Chain Assembly		142262-0-01	
Y- 2	Wrench		140342-0-01		Y-21	Needle Bag			
Y- 3	Wrench		105343-0-01		Y-22	Needle DCx1		112297-	
Y- 4	Spanner 6x7		107779-0-01		Y-23	Needle Bag			
Y- 6	Spanner 3		142721-0-01		Y-24	Needle DMx13		140104-	
Y- 7	Screw Driver		144124-0-01		Y-25	Threadle Pedal		147893-0-01	
Y- 8	Allen Driver Wrench		146700-0-01		Y-26	Pedal Stopper		116016-0-01	
Y- 9	Screw Driver		118837-0-01		Y-27	Nut		021400-1-06	
Y-10	Screw Driver		101572-1-01		Y-28	Screw		001401-4-06	
Y-11	Tweezers		117466-0-00		Y-29	Funnel		140759-0-00	
Y-12	Threader		142125-0-00		Y-30	Upper Knife		148198-0-01	
Y-13	Screw		031311-3-02		Y-31	Screw		141542-0-01	
Y-14	Duster Drop		148430-0-01		Y-32	Trimming Knife		148259-0-01	
Y-15	Washer		025680-2-32		Y-33	Lower Knife		112436-0-01	
Y-16	Screw		031451-6-03		Y-34	Head Cover		144225-0-01	
Y-17	Duster Shoot (L)		148431-0-01		Y-35	Oiler		114483-0-01	
Y-18	Duster Shoot (S)		148432-0-01		Y-36	Oil Tank		145277-0-01	
Y-19	Table Sheet		149005-0-01						

* The details of included accessories are subject to change.

* Änderungen in der Aufstellung der mitgelieferten Zubehöre sind vorbehalten.

* Les détails des accessoires inclus sont sujets à des changements.

* Los detalles de los accesorios incluidos pueden variar.

DIFFERENT PARTS LIST

Model	Sub-Class	No. of Needles	No. of Thread	Needle Gauge	Sewing Width	Max. Stitch	Differential Ratio	Presser Foot	Feed Dog		Needle Size	Sewing Speed	Front Cover Assembly		Supporter for Front Cover Assembly		Needle Clamp Assembly		Needle DC x 1	
									Pitch	Type										
B-581	061-3	2	5	2	3	3.6	0.3~1.8	4	1.6		#11	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	B 11 B 12	146487 001	B 13 B 14	112297 011 140104 011
	062-3	2	4	2	3	3.6	0.3~1.8	4	1.6		#11	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	B 11 B 12	146487 001	B 13 B 14	112297 011 140104 011
	063-5	2	5	3	5	3.6	0.3~1.8	6	1.6		#14	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	L 14 L 15	146489 001	L 16 L 17	112297 014 140104 014
	064-5	2	4	3	5	3.6	0.3~1.8	6	1.6		#14	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	M 14 M 15	146489 001	M 16 M 17	112297 014 140104 014
	065-5	2	5	5	5	3.6	0.3~1.8	6	1.6		#16	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	N 14 N 15	146491 001	N 16 N 17	112297 016 140104 016
	066-5	2	4	5	5	3.6	0.3~1.8	6	1.6		#16	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	P 14 P 15	146491 001	P 16 P 17	112297 016 140104 016
	067-4	2	5	2	4	3.3	0.3~2.7	5	1.6		#14	5000	A 34 A 38 A 79	148101 001	A 28 A 29	146444 001	B 11 B 12	146487 001	Q 19 Q 20	112297 014 140104 014
	069-5	2	5	3	5	3.3	0.3~2.7	5	1.6		#14	5000	A 34 A 38 A 79	148101 001	A 28 A 29	146444 001	R 21 R 22	146489 001	R 19 R 20	112297 014 140104 014
	071-6	2	5	5	6	3.3	0.3~2.7	5	1.6		#14	5000	A 34 A 38 A 79	148101 001	A 28 A 29	146444 001	S 21 S 22	146491 001	S 19 S 20	112297 014 140104 014
	073-4	2	5	2	4	3.3	0.3~2.7	5	1.6		#14	5000	A 34 A 38 A 79	148101 001	A 28 A 29	146444 001	B 11 B 12	146487 001	T 19 T 20	112297 014 140104 014
	075-5	2	5	3	5	3.3	0.3~2.7	5	1.6		#14	5000	A 34 A 38 A 79	148101 001	A 28 A 29	146444 001	U 21 U 22	146489 001	U 19 U 20	112297 014 140104 014
	077-6	2	5	5	6	3.3	0.3~2.7	5	1.6		#14	5000	A 34 A 38 A 79	148101 001	A 28 A 29	146444 001	V 21 V 22	146491 001	V 19 V 20	112297 014 140104 014
	081-5	2	5	3	5	3.6	0.3~1.8	6	1.6		#14	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	W 16 W 17	146489 001	W 15 W 14	112297 014 140104 014
	087-6	2	5	5	6	3.6	0.3~1.8	6.5	2.5		#21	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	W 1 W 2	146491 001	W 3 W 4	112297 021 140104 021
	089-5	2	5	3	5	3.6	0.3~1.8	6	1.6		#14	5000	a 36 a 40 a 46	148989 001	a 32 a 33	147367 001	a 15 a 16	146489 001	B 13 B 14	112297 014 140104 014
	092-6	2	5	5	6	3.0	0.3~1.8	3.5	2.5		#21	5000	A 34 A 38 A 79	148987 001	A 28 A 29	146444 001	b 1 b 2	146491 001	b 3 b 4	112297 021 140104 021

Model	Sub-Class	Needle Plate	Presser Foot Assembly	Main Feed Dog	Differential Feed Dog	Chain Feed Dog	Over Looper Assembly	Over Looper	Needle Thread Take-up	Washer								
B-581	061-3 B-67 -5	146498-001	F-59 F-67	148155-001	E-43	146567-001	E-40	146572-001	E-42	146577-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	062-3 B-67	146498-001	F-59 F-67	148155-001	E-43	146567-001	E-40	146572-001	E-42	146577-001	C-37 C-45 C-61	148209-001	K-2 K-3	147935-001	K-1	142201-001		
	063-5 L-18	146503-001	L-1 L-13	148150-001	E-43	146567-001	E-40	146572-001	E-42	146577-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	064-5 M-18	146503-001	M-1 M-13	148150-001	E-43	146567-001	E-40	146572-001	E-42	146577-001	C-37 C-45 C-61	148209-001	M-20 M-21	147935-001	M-19	142201-001		
	065-5 N-18	146504-001	N-1 N-13	148153-001	N-19	146568-001	N-20	146573-001	E-42	146577-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	066-5 P-18	146504-001	P-1 P-13	148153-001	N-19	146568-001	P-20	146573-001	E-42	146577-001	C-37 C-45 C-61	148209-001	P-21 P-22	147935-001	P-23	142201-001		
	067-4 Q-14	146507-001	Q-1 Q-13	148158-001	Q-16	148190-001	Q-17	146575-001	Q-15	148189-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	069-5 R-14	146508-001	R-1 R-13	148160-001	R-16	148190-001	R-17	146575-001	R-15	148189-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	071-6 S-14	146509-001	S-1 S-13	148161-001	S-16	148191-001	S-17	146576-001	S-15	148189-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	073-4 T-14	146507-001	T-1 T-13	148747-001	T-16	148750-001	T-17	146575-001	T-15	148189-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	075-5 U-14	146508-001	U-1 U-13	148748-001	U-16	148751-001	U-17	146575-001	U-15	148189-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	077-6 V-14	146509-001	V-1 V-13	148749-001	V-16	148752-001	V-17	146576-001	V-15	148189-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
	081-5 W-20	146503-001	W-1 W-13	148162-001	E-43	146567-001	E-40	146572-001	E-42	146577-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003
087-6 W-14	146510-001	W-5 W-13	148260-001	W-15	146569-001	W-16	146574-001	E-42	146577-001	W-18 W-27	148217-001	W-30 W-31	147937-001	G-6	144108-001	G-7	105248-003	
089-5 a-14	147369-001	a-1 a-13	148263-001	E-43	146567-001	E-40	146572-001	E-42	146577-001	C-37 C-45 C-61	148209-001	C-46 C-47	147934-001	G-6	144108-001	G-7	105248-003	
092-6 b-14	146510-001	b-5 b-13	148260-001	b-15	146569-001	b-16	146574-001	E-42	146577-001	b-18 b-27	148217-001	b-30 b-31	147937-001	G-6	144108-001	G-7	105248-003	

Oil Cap		Threading Diagram		Level		Level		Ruffling Attachment Assembly	Screw	Ruffler Guide	Screw	Lapper
A-27	111865-001	A-33	148104-001	A-19	146976-001	A-42	147943-001					
A-27	111865-001	K-4	148105-001	K-5	146976-004							
A-27	111865-001	A-33	148104-001	L-19	146976-009	A-42	147943-001					
A-27	111865-001	M-22	148105-001	M-23	146976-012							
A-27	111865-001	A-33	148104-001	N-21	146976-013	A-42	147943-001					
A-27	111865-001	P-24	148105-001	P-25	146976-016							
		A-33	148104-001	Q-18	146976-019	A-42	147943-001	Q-21 146587-001 Q-52	Q-53 009781-812	Q-54 144793-000	Q-55 112751-002	
		A-33	148104-001	R-18	146976-021	A-42	147943-001	R-23 146587-001 R-54	R-55 009781-812	R-56 144793-000	R-57 112751-002	
		A-33	148104-001	S-18	146976-023	A-42	147943-001	S-23 146587-001 S-54	S-55 009781-812	S-56 144793-000	S-57 112751-002	
		A-33	148104-001	T-18	146976-025	A-42	147943-001	T-21 146587-001 T-52	T-53 009781-812	T-54 144793-000	T-55 112751-002	T-58 147440-000
		A-33	148104-001	U-18	146976-027	A-42	147943-001	U-23 146587-001 U-54	U-55 009781-812	U-56 144793-000	U-57 112751-002	U-60 147440-000
		A-33	148104-001	V-18	146976-029	A-42	147943-001	V-23 146587-001 V-54	V-55 009781-812	V-56 144793-000	V-57 112751-002	V-60 147440-000
A-27	111865-001	A-33	148104-001	W-21	146976-039	A-42	147943-001					
A-27	111865-001	A-33	148104-001	W-17	146976-051	A-42	147943-001					
A-27	111865-001	A-33	148104-001	a-43	146976-069	A-42	147943-001					
A-27	111865-001	A-33	148104-001	b-17	146976-090	A-42	147943-001					

Model	Sub-Class	Screw	Spool Stand Assembly	Tape Winder Assembly	Screw	Lapper Assembly	Screw	Washer	Tape Guide	Screw
B-581	061-3									
	-5									
	062-3									
	063-5									
	064-5									
	065-5									
	066-5									
	067-4									
	069-5									
	071-6									
	073-4	T-59	009680-612 X-1 X-7	181031-001 X-8 X-16	143767-002 a-26	101118-001				
	075-5	U-61	009680-612 X-1 X-7	181031-001 X-8 X-16	143767-002 a-26	101118-001				
	077-6	V-61	009680-612 X-1 X-7	181031-001 X-8 X-16	143767-002 a-26	101118-001				
	081-5									
	087-6									
089-5			a-17 X-25	143767-002 a-26	101118-001 a-27 a-30	147373-000 a-31	009670-512 a-41	025350-332 a-34	147377-001 a-35	009670-512
092-6										

Washer	Handle	Nut	Tape Guide	Screw	Spring	Upper Knife	Bolt	Upper Knife Holder
					G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
					G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
					G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
					G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
					G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
					G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
	Q-56 145809-001	Q-57 021780-303			G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
	R-58 145809-001	R-59 021780-303			G-18 144104-001	F-42 148198-001	F-41 144075-001	F-43 144179-001
	S-58 145809-001	S-59 021780-303			G-18 144104-001	F-42 148192-001	F-41 144075-001	F-43 144179-001
	T-56 145809-001	T-57 021780-303			G-18 144104-001	F-42 148192-001	F-41 144075-001	F-43 144179-001
	U-58 145809-001	U-59 021780-303			G-18 144104-001	F-42 148192-001	F-41 144075-001	F-43 144179-001
	V-58 145809-001	V-59 021780-303			G-18 144104-001	F-42 148192-001	F-41 144075-001	F-43 144179-001
			W-18 146883-001	W-19 009669-412	G-18 144104-001	F-42 148192-001	F-41 144075-001	F-43 144179-001
					W-32 148851-001	F-42 148192-001	F-41 144075-001	F-43 144179-001
a-42 025350-332					G-18 144104-001	F-42 148192-001	F-41 144075-001	F-43 144179-001
					b-32 148851-001	b-34 148342-001		b-33 148345-001

Model	Sub-Class	Screw	Screw	Upper Knife Presser	Upper Knife Presser Plate
061-3	F-44	107407-003			
-5					
062-3	F-44	107407-003			
063-5	F-44	107407-003			
064-5	F-44	107407-003			
065-5	F-44	107407-003			
066-5	F-44	107407-003			
067-4	F-44	107407-003			
069-5	F-44	107407-003			
B-581					
071-6	F-44	107407-003			
073-4	F-44	107407-003			
075-5	F-44	107407-003			
077-6	F-44	107407-003			
081-5	F-44	107407-003			
087-6	F-44	107407-003			
089-5	F-44	107407-003			
092-6	b-37	102424-003	b-38	009671-014	b-35 148343-001 b-35 148344-001

INDEX

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
001401-4-06	Y-28		009680-6-12	R-47		017761-6-12	F-37		101118-0-01	X-17	
001630-4-02	G-45		"	S-42		"	W-28		101572-1-01	Y-10	
"	G-48		"	S-47		"	b-24		101706-0-01	A-63	
001670-5-12	Q-41		"	T-40		017771-4-12	D-10		"	Q-27	
"	R-43		"	T-45		017771-6-12	A-45		"	Q-28	
"	S-43		"	T-59		"	C-56		"	R-29	
"	T-41		"	U-42		"	F-52		"	R-30	
"	U-43		"	U-47		018061-6-22	B-75		"	S-29	
"	V-43		"	U-61		021400-1-06	Y-27		"	S-30	
009630-6-12	D-1		"	V-42		021670-2-02	B-77		"	T-27	
009630-8-12	E-41		"	V-47		021680-2-02	F-9		"	T-28	
009639-3-12	F-60		"	V-61		021760-3-03	Q-52		"	U-29	
"	F-62		009680-7-12	A-52		"	R-54		"	U-30	
009660-6-12	b-9		"	A-77		"	S-54		"	V-29	
009660-7-12	Q-12		"	B-31		"	T-52		"	V-30	
"	Q-22		"	B-35		"	U-54		101706-0-03	D-14	
"	R-12		"	B-68		"	V-54		"	E-28	
"	R-23		"	C-62		021780-3-03	Q-57		102424-0-03	b-37	
"	S-12		"	E-53		"	R-59		102538-0-02	B-39	
"	S-23		"	F-14		"	S-59		102627-0-01	F-54	
"	T-12		"	F-58		"	T-57		102843-0-04	A-8	
"	T-21		009680-7-14	A-1		"	U-59		"	B-46	
"	U-12		009680-8-12	Q-49		"	V-59		"	B-50	
"	U-23		"	R-51		025350-3-32	a-41		104908-0-01	F-20	
"	V-12		"	S-51		"	a-42		105163-0-01	Q-44	
"	V-23		"	T-49		025630-2-32	G-44		"	R-46	
009669-3-12	G-5		"	U-51		"	G-47		"	S-46	
009669-4-12	B-5		"	V-51		025680-2-32	Y-15		"	T-44	
"	B-71		009681-0-12	B-58		025770-2-32	Q-35		"	U-46	
"	F-68		009681-2-12	A-17		"	R-37		"	V-46	
"	G-55		009681-4-12	F-10		"	S-37		105230-0-01	G-64	
"	W-19		"	G-21		"	T-35		105234-0-03	Q-29	
009670-4-12	A-31		009781-8-12	Q-53		"	U-37		"	R-31	
"	G-52		"	R-55		"	V-37		"	S-31	
009670-5-12	C-1		"	S-55		028050-2-42	X-5		"	T-29	
"	C-19		"	T-53		028350-2-43	G-51		"	U-31	
"	C-28		"	U-55		031311-3-02	Y-13		"	V-31	
"	C-48		"	V-55		031451-6-03	Y-16		105248-0-03	G-7	
"	C-57		013679-4-12	O-50		034151-6-03	Z-4		105288-0-01	L-7	
"	F-25		"	R-52		047140-8-42	A-37		"	L-10	
"	a-31		"	S-52		047140-8-42	a-38		"	M-7	
"	a-35		"	T-50		048020-3-42	L-12		"	M-10	
009670-6-12	A-7		"	U-52		"	M-12		"	N-7	
"	A-9		"	V-52		"	N-12		"	N-10	
"	A-40		013760-6-12	A-74		"	P-12		"	P-7	
"	A-48		"	C-14		"	W-4		"	P-10	
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"	A-60		014680-4-22	A-22		"	a-11		"	R-10	
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"	A-70		"	C-23		072600-1-00	B-53		"	T-10	
"	F-47		"	C-45		"	B-60		"	U-10	
"	G-8		"	C-47		"	B-62		"	V-10	
"	G-25		"	D-25		081002-6-70	F-17		"	W-8	
"	G-34		"	G-54		100022-0-05	F-21		"	W-12	
"	G-39		"	K-3		100032-0-03	A-58		"	W-6	
"	G-57		"	M-21		"	B-66		"	W-9	
"	G-66		"	P-22		100080-0-02	X-3		"	a-7	
"	G-69		"	W-22		100136-0-01	a-25		"	a-10	
009670-8-12	B-8		"	W-35		"	X-15		105343-0-01	Y-3	
"	B-38		"	b-18		100260-0-01	C-32		106568-0-01	A-55	
"	C-24		"	b-31		"	F-30		106720-0-02	A-69	
"	G-10		017751-4-12	C-21		100366-0-01	B-19		107244-0-01	B-64	
"	G-12		"	D-23		"	B-20		107351-0-01	B-74	
"	G-38		017761-4-12	D-20		"	B-26		107407-0-03	A-39	
009671-0-14	b-38		"	E-7		"	B-81		"	E-38	
009671-4-12	B-76		"	E-14		"	E-22		"	E-45	
009680-6-12	Q-40		"	E-25		100444-0-02	X-2		"	F-44	
"	Q-45		017761-6-12	B-24		100447-0-01	X-7		"	F-51	
"	R-42		"	C-39		101118-0-01	a-26		107779-0-01	Y-4	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
108494-0-01	a -23		113589-0-01	A -15		140273-0-01	Q - 4		144049-0-01	C -26	
"	X -13		114255-0-02	B -15		"	R - 4		144075-0-01	F -41	
108495-0-01	a -24		114483-0-01	Y -35		"	S - 4		144103-0-02	G -17	
"	X -14		116016-0-01	Y -26		"	T - 4		"	G -29	
108809-0-01	C -36		116231-0-01	E - 9		"	U - 4		144104-0-01	G -18	
"	W-32		"	E -15		"	V - 4		144105-0-00	G -19	
"	b -28		117160-0-01	A -30		140275-0-01	Q - 5		"	G -27	
109203-0-01	A -44		117466-0-00	Y -11		"	R - 5		"	G -63	
109852-0-01	X - 4		117515-0-01	F -45		"	S - 5		"	Q -33	
109853-0-01	X - 1		117516-0-01	E -39		"	T - 5		"	R -35	
109854-0-01	X -1 ~ 5		"	E -44		"	U - 5		"	S -35	
110161-0-03	X - 6		"	F -46		"	V - 5		"	T -33	
110230-0-01	Q -30		117591-0-01	D -18		140289-0-01	G -67		"	U -35	
"	R -32		117608-0-01	B -72		140290-0-01	G -53		"	V -35	
"	S -32		118768-0-01	B -32		140313-0-01	D - 9		144106-0-02	G -20	
"	T -30		118837-0-01	Y - 9		140327-0-01	D -11		"	G -26	
"	U -32		122771-0-02	G -41		140342-0-01	Y - 2		"	Q -32	
"	V -32		"	L - 4		140759-0-00	Y -29		"	R -34	
110641-0-01	A -43		"	M - 4		140774-0-00	E -30		"	S -34	
110670-0-00	B -59		"	N - 4		"	E -54		"	T -32	
110672-0-00	B -61		"	P - 4		140992-0-01	Q - 1		"	U -34	
110673-0-00	B -63		"	W-10		"	R - 1		"	V -34	
110807-0-02	b -10		"	W- 4		"	S - 1		144108-0-01	G - 6	
110813-0-01	G -33		"	a - 4		"	T - 1		144110-0-01	G -28	
"	G -59		122991-0-01	Y - 1		"	U - 1		144124-0-01	Y - 7	
"	G -70		140041-0-01	A - 5		"	V - 1		144127-0-01	C -25	
110820-0-01	G -14		140065-0-01	E - 1		140993-0-01	Q - 2		144179-0-01	F -43	
"	G -32		140066-0-01	B -28		"	R - 2		144225-0-01	Y -34	
"	Q -36		"	C -29		"	S - 2		144458-0-01	C -10	
"	R -38		140077-0-01	A -50		"	T - 2		144764-0-01	Q -42	
"	S -38		140084-0-00	B -65		"	U - 2		"	R -44	
"	T -36		140085-0-03	B -57		"	V - 2		"	S -44	
"	U -38		140092-0-01	B -18		141183-0-00	A -65		"	T -42	
"	V -38		"	B -25		141393-0-01	F -70		"	U -44	
110832-0-01	G -15		140104-	Y -24		141528-0-01	F - 8		"	V -44	
"	G -31		140104-0-11	B -14		141542-0-01	Y -31		144778-0-01	Q -11	
"	G -60		140104-0-14	L -17		142125-0-00	Y -12		"	R -11	
111486-0-01	B -78		"	M -17		142201-0-01	K - 1		"	S -11	
111865-0-01	A -27		"	Q -20		"	M -19		"	T -11	
112297-	Y -22		"	R -20		"	P -23		"	U -11	
112297-0-11	B -13		"	S -20		142243-0-01	F -64		"	V -11	
112297-0-14	L -16		"	T -20		142244-0-01	F -61		144783-0-01	Q -21	
"	M -16		"	U -20		142245-0-01	F -59		"	R -25	
"	Q -19		"	V -20		142246-0-01	F -65		"	S -25	
"	R -19		"	W -14		142247-0-01	F -66		"	T -23	
"	S -19		"	a -45		142262-0-01	Y -20		"	U -25	
"	T -19		140104-0-16	N -17		145290-0-01	C - 3		"	V -25	
"	U -19		"	P -17		"	C - 7		144784-0-01	Q -23	
"	V -19		140104-0-21	W -21		"	C -54		"	R -24	
"	W -15		"	b - 4		142658-0-01	C -50		"	S -24	
"	a -44		140180-0-01	B -55		142669-0-01	G -42		"	T -22	
112297-0-16	N -16		140208-0-01	E -34		142674-0-00	E -31		"	U -24	
112297-0-21	W -20		"	E -57		"	E -58		"	V -24	
"	b - 3		140248-0-01	F -57		142721-0-01	Y - 6		144788-0-01	Q -34	
112299-0-01	G - 3		140270-0-01	N -13		143312-0-00	B -41		"	R -36	
112300-0-01	G - 2		"	P -13		143374-0-01	A -75		"	S -36	
112301-0-01	G - 4		"	Q - 6		143444-0-01	C -15		"	T -34	
112436-0-01	F -49		"	R - 6		143750-0-02	a -22		"	U -36	
"	Y -33		"	S - 6		"	X -16		"	V -36	
112751-0-02	Q -55		"	T - 6		143757-0-01	G - 9		144793-0-00	Q -54	
"	R -57		"	U - 6		143767-0-02	a -18~25		"	R -56	
"	S -57		"	V - 6		"	X - 9~16		"	S -56	
"	T -55		"	W -12		143976-0-01	a -20 - 21		"	T -54	
"	U -57		140272-0-01	Q - 9		"	X -11 - 12		"	U -56	
"	V -57		"	R - 9		143978-0-01	a -18 - 19		"	V -56	
112754-0-01	B -37		"	S - 9		"	X - 9 - 10		145147-0-01	L - 8	
112797-0-16	P -16		"	T - 9		143980-0-01	a -17		"	M - 8	
113431-0-02	E -37		"	U - 9		"	X - 8		"	N - 8	
"	E -46		"	V - 9		144031-0-00	C -35		"	P - 8	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
145147-0-01	W-13		146483-0-01	B - 9		146634-0-01	D -24		147377-0-01	a -34	
"	W-10		146486-0-00	B -10		146635-0-01	D -26		147440-0-00	T -38	
145277-0-01	Y -36		146487-0-01	B -11 - 12		146644-0-00	B -29		"	U -60	
145446-0-01	G -16		146489-0-01	L -14 - 15		146649-0-01	G -13		"	V -60	
"	G -30		"	M -14 - 15		146652-0-01	G -36		147691-0-00	B -33	
"	G -61		"	R -21 - 22		146653-0-01	G -37		"	B -34	
145803-0-01	Q -24		"	U -21 - 22		146654-0-01	G -40		147893-0-01	Y -25	
"	R -26		"	W -16 - 17		146662-0-01	G -50		147919-0-01	Z - 1	
"	S -26		"	a -15 - 16		146663-0-01	G -43		147919-0-02	Z - 2	
"	T -24		146491-0-01	N -14 - 15		146700-0-01	Y - 8		147933-0-01	Q -37	
"	U -26		"	P -14 - 15		146865-0-01	L -13		"	R -39	
"	V -26		"	S -21 - 22		"	M -13		"	S -39	
145807-0-01	Q -48		"	V -21 - 22		"	W - 5		"	T -37	
"	R -50		"	W -18 - 19		"	a -12		"	U -39	
"	S -50		"	b - 1 - 2		146868-0-01	L - 6		"	V -39	
"	T -48		146498-0-01	B -67		"	M - 6		147934-0-01	C -46 - 47	
"	U -50		146503-0-01	L -18		"	N - 6		147935-0-01	K - 3 - 4	
"	V -50		"	M -18		"	P - 6		"	M -20 - 21	
145808-0-01	Q -46		"	W -20		"	W -11		"	P -21 - 22	
"	R -48		146504-0-01	N -18		"	W - 7		147943-0-01	A -42	
"	S -48		"	P -18		"	a - 6		147973-0-01	W -34 - 35	
"	T -46		146507-0-01	Q -14		146870-0-01	L - 5		"	b -30 - 31	
"	U -48		"	T -14		"	M - 5		148015-0-01	b - 6	
"	V -48		146508-0-01	R -14		"	N - 5		148016-0-01	b - 7	
145809-0-01	Q -56		"	U -14		"	P - 5		148017-0-01	b -12	
"	R -58		146509-0-01	S -14		"	W - 9		148020-0-01	b -11	
"	S -58		"	V -14		"	W -5		148065-0-01	A -16	
"	T -56		146510-0-01	W -14		"	a - 5		148066-0-00	A -18	
"	U -58		"	b -14		146879-0-01	Q - 7		148067-0-01	A - 2	
"	V -58		146547-0-00	E -51		"	T - 7		148068-0-00	A - 3	
145811-0-01	Q -39		146549-0-01	E -52		146883-0-01	W -18		148069-0-01	A -72	
"	R -41		146567-0-01	E -43		146901-0-01	L - 3		148070-0-01	A -76	
"	S -41		146568-0-01	N -19		"	M - 3		148071-0-00	A -73	
"	T -39		"	P -19		"	N - 3		148072-0-01	A -71	
"	U -41		146569-0-01	W -15		"	P - 3		148073-0-01	A -12	
"	V -41		"	b -15		"	W - 3		148074-0-01	A - 6	
146315-0-00	A -62		146572-0-01	E -40		"	W - 2		148075-0-00	A - 4	
146421-0-00	A -14		146573-0-01	N -20		"	a - 3		148076-0-01	A -66	
146426-0-00	A -11		"	P -20		146924-0-00	A -29		148077-0-01	A -61	
146427-0-01	A -10		146574-0-01	W -16		"	a -33		148078-0-01	A -49	
"	A -68		"	b -16		146926-0-01	G -24		148082-0-01	A -57	
"	B - 2		146575-0-01	Q -17		"	G -68		148083-0-01	A -56	
"	B -12		"	R -17		146928-0-01	G -49		148084-0-01	A -23	
"	C -40		"	T -17		146929-0-01	G -35		148085-0-01	A -26	
"	D -21		"	U -17		146930-0-01	G -56		148086-0-00	B -43	
"	F - 2		"	V -17		146976-0-01	A -19		148087-0-01	A -46	
"	L -15		146576-0-01	S -17		146976-0-04	K - 5		148088-0-00	A -47	
"	M -15		146577-0-01	E -42		146976-0-09	L -19		148089-0-01	A -59	
"	N -15		146580-0-01	F -39		146976-0-12	M -23		148090-0-01	A -51	
"	P -15		146581-0-01	C -33		146976-0-13	N -21		148101-0-01	A -34 ~ 38	
"	R -22		"	F -31		146976-0-16	P -25		148103-0-01	A -41	
"	S -22		146582-0-01	F -53		146976-0-19	Q -18		148104-0-01	A -33	
"	U -22		146583-0-01	F -50		146976-0-21	R -18		148105-0-01	K - 4	
"	V -22		146584-0-01	F -55		146976-0-23	S -18		"	M -22	
"	W -16		146585-0-01	F -48		146976-0-25	T -18		"	P -24	
"	W -19		146586-0-00	F -56		146976-0-27	U -18		148111-0-00	B -54	
"	W -27		146587-0-01	Q -21 ~ 52		146976-0-29	V -18		148112-0-00	B -52	
"	a -16		"	R -23 ~ 54		146976-0-39	W -21		148113-0-01	B -51	
"	b - 2		"	S -23 ~ 54		146976-0-51	W -17		148120-0-00	B -27	
"	b -23		"	T -21 ~ 52		146976-0-69	a -43		148121-0-00	B -17	
146440-0-01	A -36		"	U -23 ~ 54		146976-0-90	b -17		148123-0-01	B -16	
"	a -39		"	V -23 ~ 54		147148-0-01	G -58		148124-0-01	B -73	
146441-0-00	A -38		146592-0-01	Q -51		147149-0-01	G -62		148125-0-01	B -70	
"	a -37		"	R -53		147272-0-01	G -46		148126-0-01	B -69	
146442-0-01	A -35		"	S -53		147344-0-01	G - 1		148128-0-01	F -11	
"	a -40		"	T -51		147367-0-01	a -32 - 33		148129-0-01	F -12	
146444-0-01	A -28 - 29		"	U -53		147369-0-01	a -14		148130-0-01	F -13	
146446-0-01	A -32		"	V -53		147371-0-01	a - 8		148131-0-01	F -18 - 19	
146472-0-01	B -40		146617-0-01	C -22		147373-0-00	a -27 ~ 30		148133-0-01	F -19	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
148134-0-01	F-16		148208-0-01	C-34		148783-0-01	b-27				
148135-0-01	F-15		148209-0-01	C-37~45		148813-0-01	F-24				
148136-0-01	F-29		148217-0-01	W-22~31		148838-0-01	E-12				
148137-0-01	F-27		"	b-18~27		148847-0-01	E-11				
148138-0-01	F-28		148224-0-01	C-2		"	E-13				
148139-0-01	F-26		148225-0-01	B-45		148851-0-01	W-32				
148143-0-01	F-7		148226-0-01	C-11		"	b-32				
148144-0-01	F-4		148227-0-00	C-12		148857-0-01	C-5				
"	F-6		148228-0-00	C-20		"	C-52				
148145-0-01	F-5		148230-0-01	B-3~8		"	D-5				
148146-0-01	F-3		148232-0-01	C-16		"	E-26				
148147-0-01	F-1		148233-0-01	D-4		"	B-48				
148148-0-01	F-69		148234-0-00	D-3		148858-0-01	B-20~23				
148150-0-01	L-1~13		148235-0-01	D-2		"	B-47				
"	M-1~13		148236-0-01	D-6		"	B-79~82				
148152-0-01	L-2		148237-0-00	D-7		148859-0-00	A-78				
"	M-2		148239-0-01	D-15		149005-0-01	Y-19				
"	N-2		148240-0-01	D-17		150162-0-01	Z-8				
"	P-2		148241-0-01	D-19		180323-0-01	C-13~14				
"	W-2		148242-0-01	C-17		181031-0-01	X-1~7				
"	W-3		148243-0-01	D-16		181628-0-01	C-51~52				
"	a-2		148244-0-00	D-12		181629-0-01	B-4~5				
148153-0-01	N-1~13		148245-0-00	D-22		181630-0-01	B-3				
"	P-1~13		148247-0-01	B-36		"	B-6~7				
"	W-1~13		148248-0-00	E-2		181631-0-01	C-50				
148155-0-01	F-59~67		148249-0-00	C-59		"	C-53~54				
148158-0-01	Q-1~13		"	W-33		"	D-10				
148160-0-01	R-1~13		"	b-29		181995-0-01	D-13~14				
148161-0-01	S-1~13		148250-0-01	C-58		"	E-28~29				
148162-0-01	W-1~13		148251-0-01	C-27		181995-0-02	Q-26~27				
148163-0-01	E-21~24		148252-0-01	C-18		"	R-28~29				
148166-0-01	E-23		148253-0-01	G-22		"	S-28~29				
148167-0-01	E-3		148254-0-01	G-23		"	T-26~27				
148168-0-00	E-4		148255-0-01	G-11		"	U-28~29				
148170-0-01	E-49~50		148256-0-01	G-65		"	V-28~29				
148173-0-00	E-48		148259-0-01	Y-32		181969-0-03	A-63~64				
148174-0-00	E-36		148260-0-01	b-5~13		025060-1-32	D-27				
148175-0-00	E-47		148262-0-01	E-48~50							
148176-0-01	E-27		148263-0-01	a-1~13							
148177-0-01	E-17		148264-0-01	a-36~40							
148178-0-01	E-16		148269-0-01	B-1~8							
148179-0-01	E-10		148281-0-01	F-40							
148180-0-01	E-8		148290-0-01	Z-3							
148181-0-01	E-5		148292-0-01	Z-5							
"	E-19		148304-0-01	A-53							
148182-0-01	E-18		148315-0-01	B-30							
148183-0-01	E-6		148342-0-01	b-34							
148184-0-00	E-32		148343-0-01	b-35							
148185-0-01	E-33		148344-0-01	b-36							
148186-0-01	E-35		148345-0-01	b-33							
"	E-56		148346-0-01	F-22~25							
148189-0-01	Q-15		148373-0-00	B-44							
"	R-15		148403-0-00	E-55							
"	S-15		148404-0-01	E-59							
"	T-15		148430-0-01	Y-14							
"	U-15		148431-0-01	Y-18							
"	V-15		148432-0-01	Y-17							
148190-0-01	Q-16		148747-0-01	T-1~13							
"	R-16		148748-0-01	U-1~13							
148191-0-01	S-16		148749-0-01	V-1~13							
148196-0-00	F-38		148750-0-01	T-16							
148197-0-00	F-32		148751-0-01	U-16							
148198-0-01	F-42		148752-0-01	V-16							
"	Y-30		148769-0-00	E-20							
148200-0-01	C-50~55		148782-0-01	C-60							
148204-0-01	C-49		"	D-29							
148205-0-01	B-49		148783-0-01	C-61							
148206-0-01	C-30		"	D-28							
148207-0-00	C-31		"	W-31							

