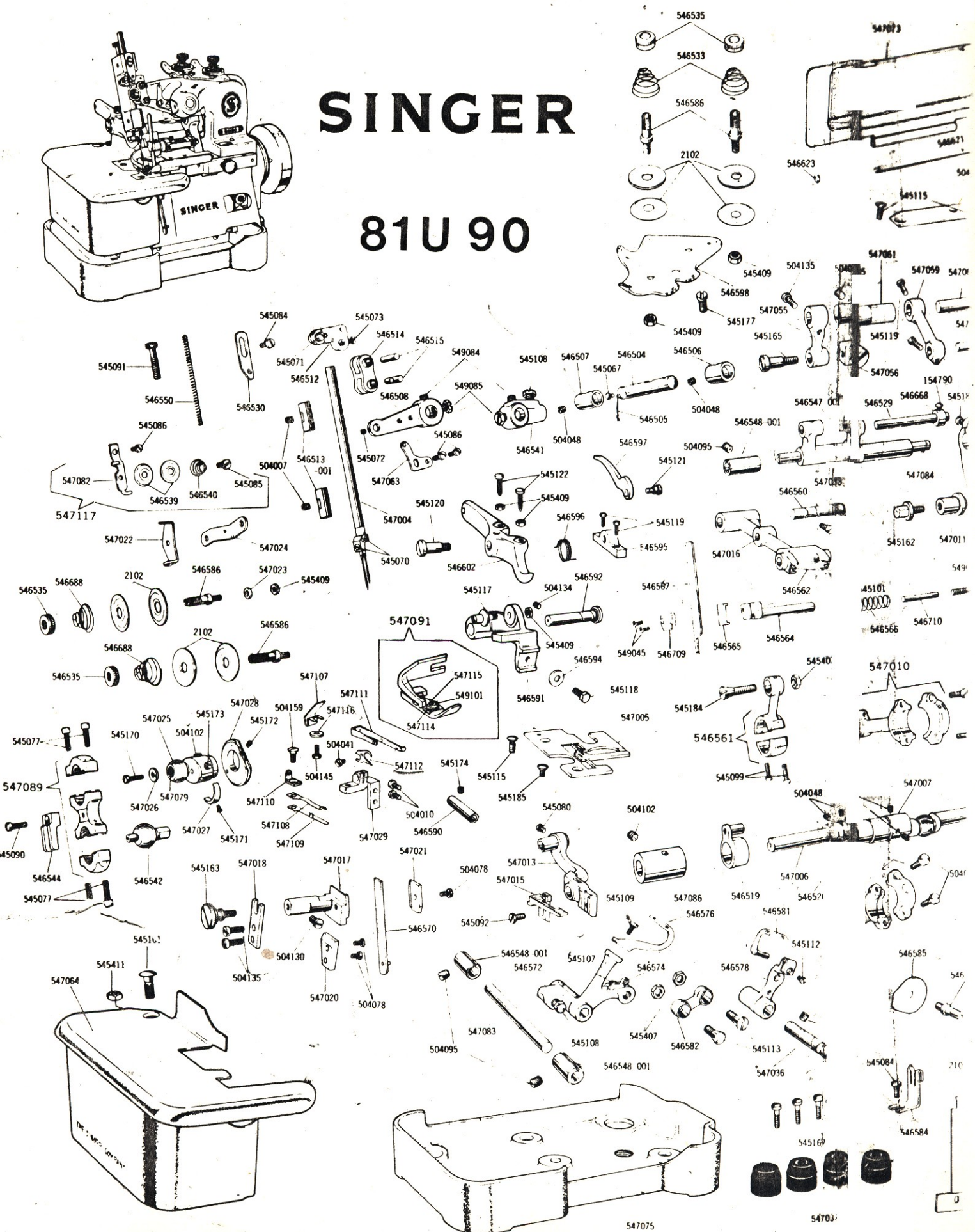
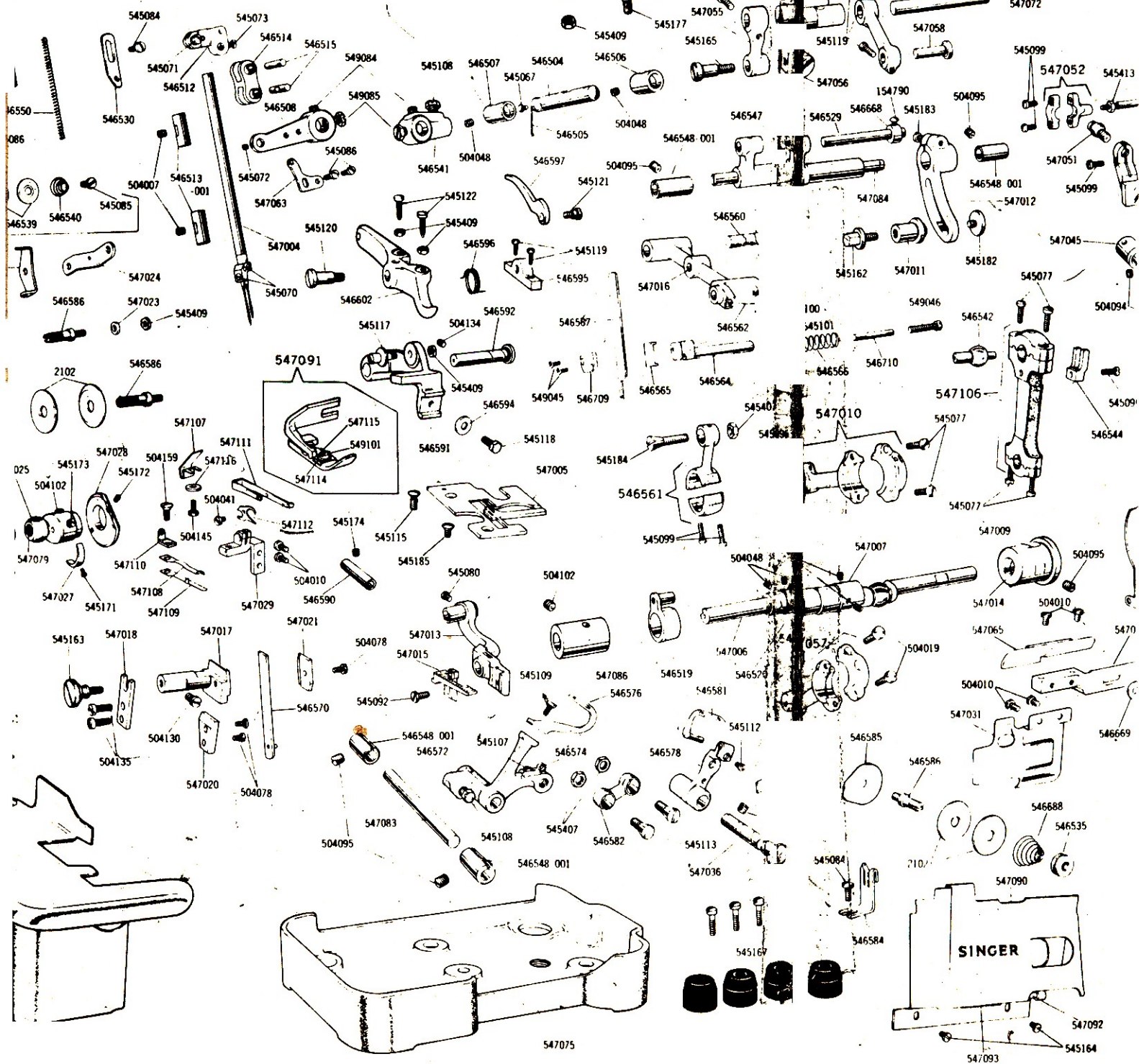
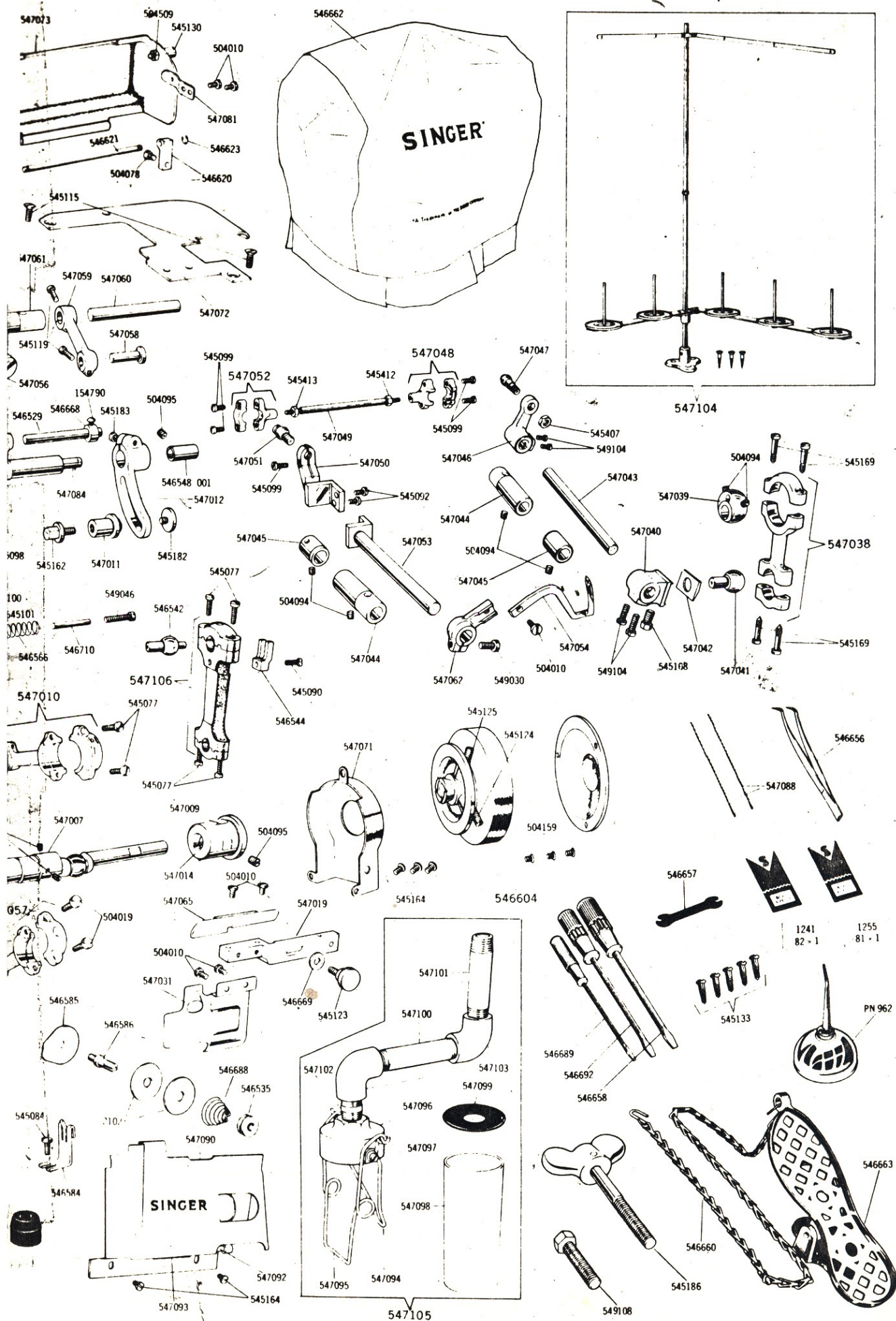








NUMERICAL LIST OF PARTS FOR 81U90

PART No.	DESCRIPTION
547048	Looper (Front) Driving Lever Connecting Rod Ball Joint (Right) with two 545099 (803)
547049	Looper (Front) Driving Lever Connecting Rod
547050	Looper (Front) Driving Lever (Left)
547051	Looper (Front) Driving Lever (Left) Ball Stud
547052	Looper (Front) Driving Lever Connecting Rod Ball Joint (Left) with two 545099 (803)
547053	Looper (Front) Lever Shaft
547054	Looper (Front)
547055	Looper (Front) Rocker Crank with 504135 (810)
547056	Looper (Front) Rocker Block
547057	Looper (Front) Rocker Connecting Rod with two 504019 (803)
547058	Looper (Front) Rocker Connecting Rod Hinge Stud
547059	Looper (Front) Rocker Link
547060	Looper (Front) Rocker Shaft
547061	Looper (Front) Rocker Shaft Bushing
547062	Looper (Front) Lever with 549030 (803)
547063	Thread (Needle) Take-up
547064	Cloth Plate Complete
547065	Chip Guard
547071	Looper (Front) Driving Connecting Rod Cover
547072	Frame Top Cover
547073	Frame Back Cover
547075	Machine Base
547079	Frame Rotary Shaft Crank Oil Pad
547081	Frame Back Cover Lock Spring
547082	Needle Bar Thread Retainer Bracket
547083	Looper (Right Hand) and Spreader Lever Hinge Pin
547084	Feed Rock Shaft Hinge Pin
547086	Frame Rotary Shaft Bushing (Front)
547089	Looper (Right Hand) and Spreader Lever Connection with four 545077 (850)
547090	Frame Side Cover with 547092 and 547093
547091	Presser Foot Complete
547092	Frame Side Cover Hinge Pin
547093	Frame Side Cover Hinge Pin Spring
547106	Needle Bar Connecting Rod with four 545077 (850)
547107	Looper (Front) Thread Take-up Staple Spring
547108	Looper (Front) Thread Nipper Spring (Upper)
547109	Looper (Front) Thread Nipper Spring (Lower)
547110	Looper (Front) Thread Take-up Staple Bracket Thread Guide
547111	Looper (Front) Thread Take-up Staple

PART No.	DESCRIPTION
547112	Looper (Front) Thread Stripper
547114	Presser Foot Spring
547115	Presser Foot Chaining-off Finger
547116	Looper (Front) Thread Take-up Staple Spring Screw Washer
547117	Needle Bar Thread Retainer Complete, Nos. 545085 (829), 546540, 547082 and two 546539
549030 (803)	Looper (Front) Lever Clamping Screw
549045 (853)	Knife (Movable) Holder Cap Screw (2)
549046 (853)	Knife (Movable) Holder Screw
549084 (833)	Needle Bar Crank (Front) Position Screw
549084 (833)	Needle Bar Crank (Back) Position Screw
549085 (833)	Needle Bar Crank (Back) Set Screw
549085 (833)	Needle Bar Crank (Front) Set Screw
549101 (803)	Presser Foot Chaining-off Finger Screw
549104 (850)	Looper (Front) Driving Lever (Right) Screw (2)
549104 (850)	Looper (Front) Driving Shaft Crank Screw (2)
549108 (805)	Frame Screw (for shipping purposes only)

OIL DRAIN JAR

547094	Jar Clamp Lever
547095	Jar Clamp
547096	Jar Cap
547097	Jar Clamp Lever Hinge Pin (2)
547098	Jar
547099	Jar Cap Packing
547100	Nipple (Large)
547101	Nipple (Medium)
547102	Nipple (Small)
547103	Nipple Elbow (2)
547105	Oil Drain Jar Complete

ATTACHMENTS

PN962	Oiler
1241 (82X1)	Needle
1255 (81X1)	Needle
545133	Wood Screw (5)
545186 (805)	Thumb Screw
546656	Tweezers (Curved)
546657	Wrench
546658	Screw Driver (Large)
546660	Foot Lifter Chain
546662	Machine Cover
546663	Foot Lifter Treadle Complete
546689	Screw Driver (Small)
546692	Screw Driver (Medium)
547088	Threading Wire (2)
547104	Thread Unwinder for Five Spools

NUMERICAL LIST OF PARTS FOR 81U90

PART No.	DESCRIPTION	PART No.	DESCRIPTION	PART No.	DESCRIPTION
2102	Tension (Front Looper and Left Hand Looper Thread) Disc (4)	504159 (819)	Balance Wheel Cap Screw (3)	545113 (850)	Looper (Left Hand) Lever Connecting Link Hinge Screw (2)
2102	Tension (Looper, Right Hand) Disc (2)	504159 (819)	Looper (Front) Thread Nipper Spring Clamp Screw	545115 (829)	Throat Plate Back Screw
2102	Tension (Needle Thread) Disc (4)	504167 (805)	Arm Screw (2) (Not illustrated)	545115 (829)	Frame Top Cover Screw (2)
154790 (852)	Feed Bar Hinge Pin Collar Set Screw	504509 (809)	Frame Back Cover Thumb Screw Nut	545117 (853)	Presser Lever Screw Stud Eccentric
154905	Number Plate Rivet (2) (Not illustrated)	545067 (821)	Needle Bar Crank Shaft Plug Screw	545118 (853)	Presser Foot Screw
154905	Trade Mark Rivet (2) (Not illustrated)	545070 (830)	Needle Set Screw (2)	545119 (853)	Lifting Lever Bracket Screw (2)
504007 (850)	Feed and Looper (Front) Rocker Eccentric Set Screw (2)	545071 (853)	Needle Bar Connecting Bracket Clamping Screw	545119 (853)	Looper (Front) Rocker Link Clamping Screw (2)
504007 (850)	Needle Bar Bushing Set Screw (2)	545072 (833)	Needle Bar Connecting Link Hinge Pin Set Screw	545120 (829)	Lifting Lever Hinge Screw
504010 (829)	Chip Guard Screw (2)	545073 (853)	Needle Bar Connecting Link Hinge Pin Set Screw	545121 (810)	Presser Lever Lifter Hinge Screw
504010 (829)	Feed Lifting Eccentric Cover Screw (2)	545077 (850)	Looper (Right Hand) and Spreader Lever Connection Cap Screw (4)	545122 (853)	Lifting Lever Stop Screw (2)
504010 (829)	Frame Back Cover Lock Spring Screw (2)	545077 (850)	Feed Connecting Rod Cap Screw (2)	545123 (852)	Chip Guard Holder Thumb Screw
504010 (829)	Looper (Front) Thread Take-up Staple Bracket Screw (2)	545077 (850)	Needle Bar Connecting Rod Cap Screw (4)	545124 (850)	Balance Wheel Set Screw
504010 (829)	Looper (Front) Screw	545080 (803)	Feed Bar Hinge Pin Set Screw	545125 (850)	Balance Wheel Position Screw
504019 (803)	Looper (Front) Rocker Connecting Rod Cap Screw (2)	545084 (853)	Thread (Needle) Eyelet Screw	545130 (810)	Frame Back Cover Thumb Screw
504041 (853)	Looper (Front) Thread Stripper Screw	545084 (853)	Thread (Looper, Right Hand) Staple Screw	545161 (829)	Cloth Plate Hinge Screw
504048 (833)	Feed Lifting Eccentric Set Screw (2)	545085 (829)	Needle Bar Thread Retainer Screw	545162 (803)	Feed Regulating Screw Stud Adjusting Screw
504048 (833)	Needle Bar Crank Shaft Bushing Set Screw (2)	545086 (829)	Needle Bar Thread Retainer Bracket Screw	545163 (809)	Knife Stationary Holder Regulating Thumb Screw
504078 (803)	Knife (Stationary) Holder Stopper Set Screw (2)	545086 (829)	Thread (Needle) Take up Screw (2)	545164 (829)	Looper (Front) Driving Connecting Rod Cover Screw
504078 (803)	Knife (Stationary) Position Plate Screw	545090 (803)	Needle Bar Connecting Rod Guide Screw	545164 (829)	Frame Side Cover Bracket Screw (2)
504078 (803)	Frame Back Cover Bracket Screw (2)	545090 (803)	Looper (Right Hand) and Spreader Lever Connection Guide Screw	545165 (803)	Looper (Front) Rocker Block Screw Stud
504094 (833)	Looper (Front) Lever Shaft Bushing (Long, Short) Set Screw (2)	545091 (829)	Pressure Regulating Thumb Screw	545167 (805)	Machine Base Cushion Screw (4)
504094 (833)	Looper (Front) Driving Shaft Bushing (Long, Short) Set Screw (2)	545092 (803)	Feed Dog Screw	545169 (833)	Looper (Front) Driving Connecting Rod Cap Screw
504094 (833)	Looper (Front) Driving Eccentric Set Screw (2)	545092 (803)	Looper (Front) Driving Lever Left Screw (2)	545170 (803)	Frame Rotary Shaft Crank Oil Pad Cap Screw (2)
504095 (850)	Frame Rotary Shaft Bushing Back Set Screw	545096 (803)	Feed Connecting Rod Clamping Screw	545171 (803)	Frame Rotary Shaft Crank Block Set Screw
504095 (850)	Feed Rock Shaft Hinge Pin Bushing Set Screw (2)	545098 (850)	Knife Movable Lever Hinge Stud Set Screw	545172 (833)	Looper (Front) Thread Take up Set Screw
504095 (850)	Looper (Front) Rocker Shaft Bushing Set Screw	545099 (803)	Knife Movable Lever Connection Cap Screw (2)	545173 (833)	Frame Rotary Shaft Crank Position Screw
504095 (850)	Looper (Right Hand) and Spreader Lever Hinge Pin Bushing Set Screw (2)	545099 (803)	Looper (Front) Driving Lever Connecting Rod Ball Joint Left Cap Screw (2)	545174 (803)	Thread (Looper, Left Hand) Tube Set Screw
504095 (850)	Looper (Left Hand) Lever Hinge Stud Set Screw	545099 (803)	Looper (Front) Driving Lever Connecting Rod Ball Joint Right Cap Screw (2)	545177 (853)	Tension (Needle Thread) Thread Guide Screw
504102 (833)	Frame Rotary Shaft Bushing Front Set Screw	545099 (803)	Looper (Front) Driving Lever Left Ball Stud Screw	545182 (803)	Feed Regulating Screw Stud Set Screw
504102 (833)	Frame Rotary Shaft Crank Set Screw	545100 (850)	Knife Movable Holder Guide Plate Screw (2)	545183 (803)	Feed Regulator Clamping Screw
504130 (850)	Knife (Stationary) Holder Screw	545101 (850)	Knife Movable Holder Guide Set Screw	545184 (803)	Knife (Movable) Lever Connection Hinge Screw
504134 (850)	Presser Lever Hinge Stud Set Screw	545107 (853)	Thread (Looper, Left Hand) Eyelet Screw	545185 (829)	Throat Plate (Front) Screw
504135 (810)	Knife (Stationary) Holder Regulating Plate Screw (2)	545108 (833)	Looper (Front) Driving Shaft Crank Ball Stud Screw	545407 (819)	Looper (Front) Driving Lever (Right) Ball Stud Nut
504135 (810)	Looper (Front) Rocker Crank Clamping Screw	545108 (833)	Needle Bar Crank (Back) Ball Stud Set Screw	545407 (819)	Looper (Left Hand) Lever Connecting Link Hinge Screw Nut (2)
504145 (810)	Looper (Front) Thread Take-up Staple Spring Screw	545108 (833)	Looper (Right Hand) and Spreader Lever Ball Stud Set Screw	545407 (819)	Knife (Movable) Lever Connection Hinge Screw Nut
		545109 (853)	Looper (Right Hand) Screw	545409 (821)	Tension (Needle Thread) Screw Stud Nut (2)
		545109 (853)	Thread (Looper, Right Hand) Take up Screw	545409 (821)	Lifting Lever Stop Screw Nut (2)
		545112 (810)	Looper (Left Hand) Clamping Screw	545409 (821)	Presser Lever Screw Stud Nut
				545409 (821)	Tension (Front Looper and Left Hand Looper Thread) Screw Stud Nut

NUMERICAL LIST OF PARTS FOR 81U90

PART No.	DESCRIPTION	PART No.	DESCRIPTION	PART No.	DESCRIPTION
545411 (805)	Cloth Plate Hinge Screw Nut	546570	Knife (Stationary) with Stud	547009	Oil Pad for Frame Rotary Shaft Flanged Bushing (Back)
545412 (803)	Looper (Front) Driving Lever Connecting Rod Nut (Left)	546572	Looper (Right Hand) and Spreader Lever	547010	Feed Connecting Rod with two 545077 (850)
545413 (803)	Looper (Front) Driving Lever Connecting Rod Nut (Right)	546574	Thread (Looper, Left Hand) Eyelet	547011	Feed Regulating Screw Stud
546503	Arm Dowel Pin (2) (Not illustrated)	546576	Looper (Right Hand)	547012	Feed Regulator with 545183 (803)
546504	Needle Bar Crank Shaft	546578	Looper (Left Hand) Lever	547013	Feed Bar
546505	Needle Bar Crank Shaft Oil Wick	546580	Thread (Looper, Right Hand) Take-up	547014	Frame Rotary Shaft Flanged Bushing (Back)
546506	Needle Bar Crank Shaft Bushing (Front)	546581	Looper (Left Hand)	547015	Feed Dog
546507	Needle Bar Crank Shaft Bushing (Back)	546582	Looper (Left Hand) Lever Connecting Link	547016	Knife (Movable) Lever
546508	Needle Bar Crank (Front) with 549084 (833) and 549085 (833)	546584	Thread (Looper, Right Hand) Staple	547017	Knife (Stationary) Holder
546512	Needle Bar Connecting Bracket with 545071 (853)	546585	Tension (Looper, Right Hand) Thread Guide	547018	Knife (Stationary) Holder Regulating Plate
546513 001	Needle Bar Bushing (2)	546586	Tension (Looper, Right Hand) Screw Stud	547019	Chip Guard Holder
546514	Needle Bar Connecting Link	546586	Tension (Front Looper and Left Hand Looper Thread) Screw Stud (2)	547020	Knife (Stationary) Holder Stopper
546515	Needle Bar Connecting Link Hinge Pin (2)	546586	Tension (Needle Thread) Screw Stud (2)	547021	Knife (Stationary) Position Plate
546519	Feed Lifting Eccentric Connection	546590	Thread (Looper, Left Hand) Tube	547022	Tension (Front Looper Thread) Thread Guide
546520	Feed Lifting Eccentric with two 504048 (850)	546591	Presser Lever	547023	Tension (Front Looper Thread) Screw Stud Washer
546529	Feed Bar Hinge Pin	546592	Presser Lever Hinge Stud	547024	Tension Left Hand Looper Thread Guide
546530	Thread (Needle) Eyelet	546594	Presser Foot Screw Washer	547025	Frame Rotary Shaft Crank with 504102 (833), 545170 (803), 545171 (803), 545173 (833), 547026, 547027, and 547079
546533	Tension (Needle Thread) Spring (2)	546595	Lifting Lever Bracket	547026	Frame Rotary Shaft Crank Oil Pad Cap
546535 (821)	Tension (Front Looper and Left Hand Looper Thread) Regulating Thumb Nut (2)	546596	Lifting Lever Spring	547027	Frame Rotary Shaft Crank Block
546535 (821)	Tension (Needle Thread) Regulating Thumb Nut (2)	546597	Presser Lever Lifter	547028	Looper (Front) Thread Take-up with 545172 (833)
546535 (821)	Tension (Looper, Right Hand) Regulating Thumb Nut	546598	Tension (Needle Thread) Thread Guide	547029	Looper (Front) Thread Take-up Staple Bracket
546539	Needle Bar Thread Retainer Disc (2)	546602	Lifting Lever with two each 545122 (853) and 545409 (821)	547031	Feed and Looper (Front) Eccentric Cover
546540	Needle Bar Thread Retainer Spring	546604	Balance Wheel with Cap, three 504159 (819), 545124 (850) and 545125 (850)	547032	Machine Base Cushion (4)
546541	Needle Bar Crank (Back) with 545108 (833), 549084 (833), and 549085 (833)	546620	Frame Back Cover Bracket (2)	547033	Feed Rock Shaft
546542	Looper (Right Hand) and Spreader Lever Ball Stud	546621	Frame Back Cover Hinge Pin	547036	Looper (Left Hand) Lever Hinge Stud
546542	Needle Bar Crank (Back) Ball Stud	546623	Frame Back Cover Hinge Pin Washer (2)	547038	Looper (Front) Driving Connecting Rod with four 545169 (833)
546544	Needle Bar Connecting Rod Guide	546668	Feed Bar Hinge Pin Collar with 154790 (832)	547039	Looper (Front) Driving Eccentric with two 504094 (833)
546544	Looper (Right Hand) and Spreader Lever Connection Guide	546669	Chip Guard Holder Thumb Screw Washer	547040	Looper (Front) Driving Shaft Crank with 545108 (833) and two 549104 (850)
546547-001	Oil Pad for Feed Bar	546688	Tension (Front Looper and Left Hand Looper Thread) Spring (2)	547041	Looper (Front) Driving Shaft Crank Ball Stud
546548-001	Feed Rock Shaft Hinge Pin Bushing (2)	546688	Tension (Looper, Right Hand) Spring	547042	Looper (Front) Driving Shaft Crank Ball Stud Spacer
546548-001	Looper (Right Hand) and Spreader Lever Hinge Pin Bushing (2)	546709	Knife (Movable) Holder Cap	547043	Looper (Front) Driving Shaft
546550	Presser Lever Spring	546710	Knife (Movable) Holder Screw Extension Pin	547044	Looper (Front) Driving Shaft Bushing (Long)
546560	Knife (Movable) Lever Hinge Stud	547001	Frame (Not illustrated)	547044	Looper (Front) Lever Shaft Bushing (Long)
546561	Knife (Movable) Lever Connection with two 545099 (803)	547002	Arm (Not illustrated)	547045	Looper (Front) Driving Shaft Bushing (Short)
546562	Knife (Movable) Holder Guide Plate	547003	Arm and Frame Assembly, Nos. 547001, 547002, two each 504167 (805) and 546503 (Not illustrated)	547045	Looper (Front) Lever Shaft Bushing (Short)
546563	Knife (Movable) Holder Guide	547004	Needle Bar with two 545070 (830)	547046	Looper (Front) Driving Lever (Right) with two 549104 (850)
546564	Knife (Movable) Holder	547005	Throat Plate	547047	Looper (Front) Driving Lever (Right) Ball Stud
546565	Knife (Movable) Gib	547006	Frame Rotary Shaft		
546566	Knife (Movable) Holder Spring	547007	Feed and Looper (Front) Rocker Eccentric with two 504007 (850)		
546567	Knife (Movable)	547008	Oil Pad for Frame (Not illustrated)		