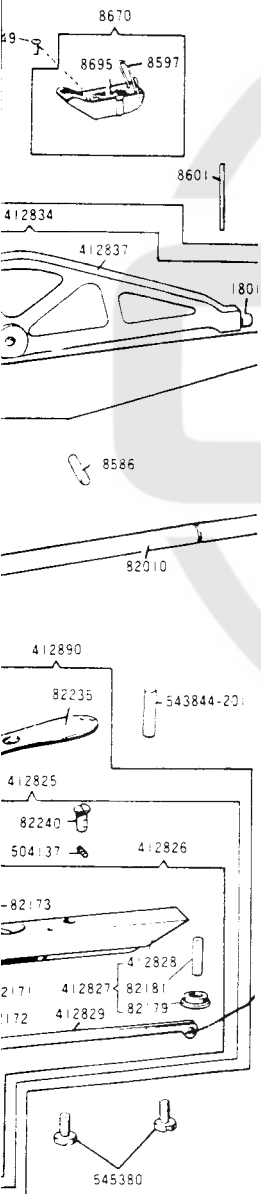


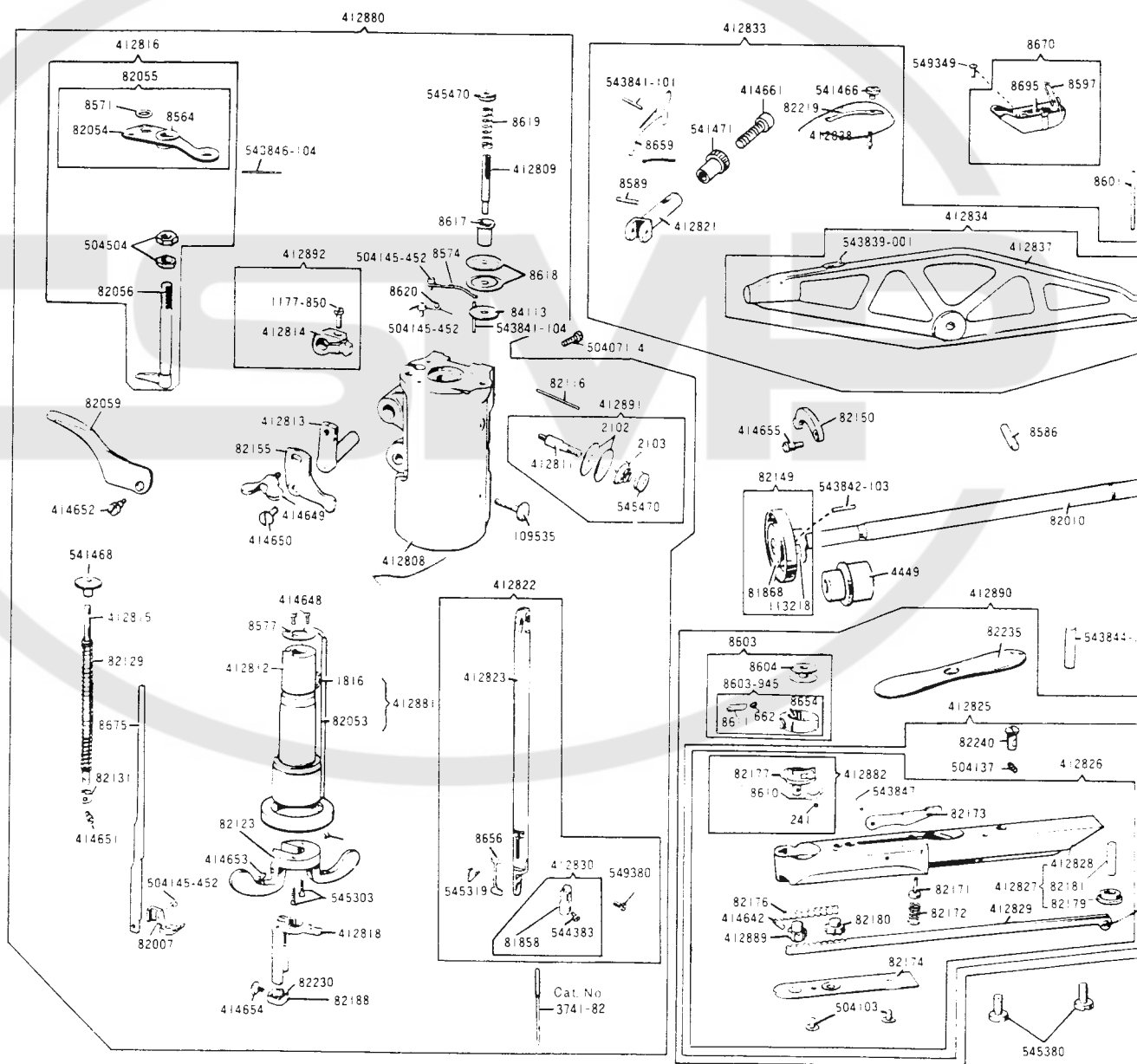
MACHINE PARTS CHART for

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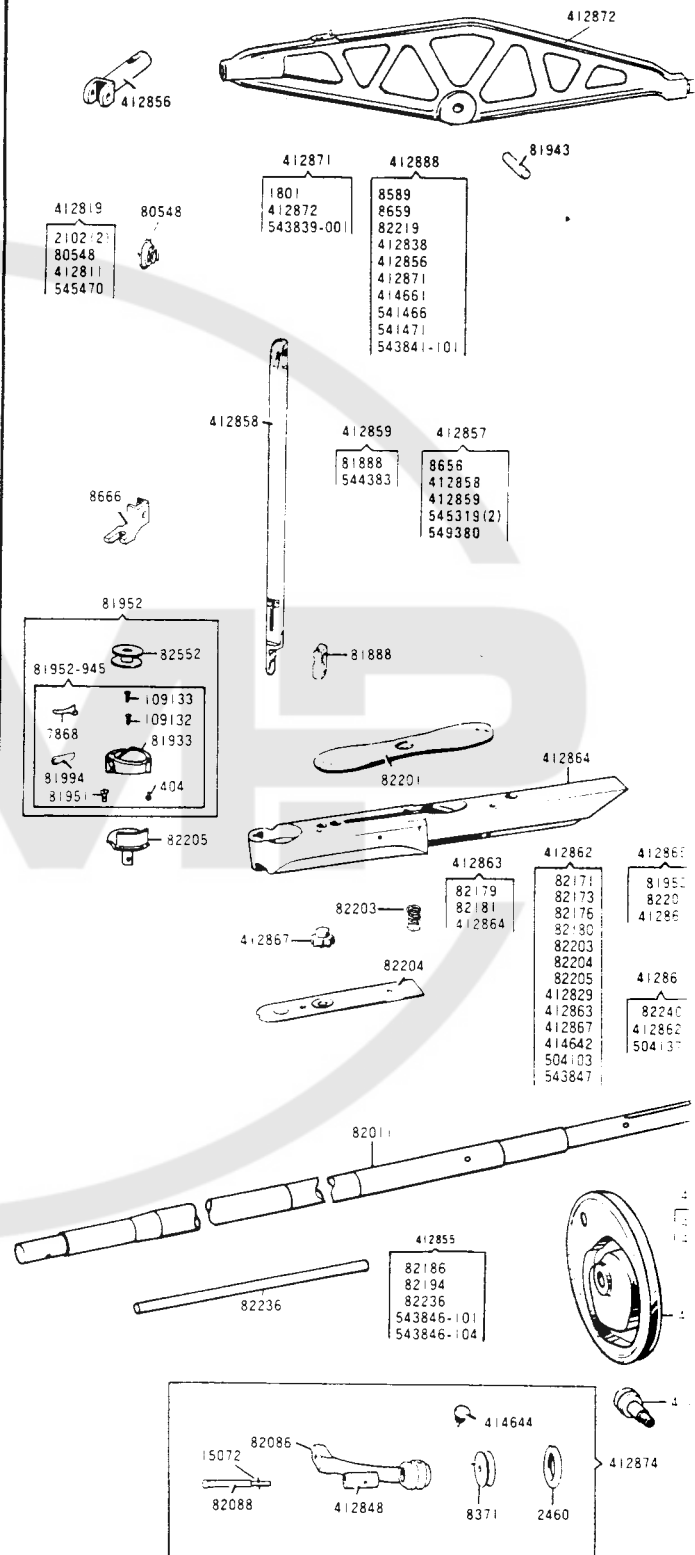
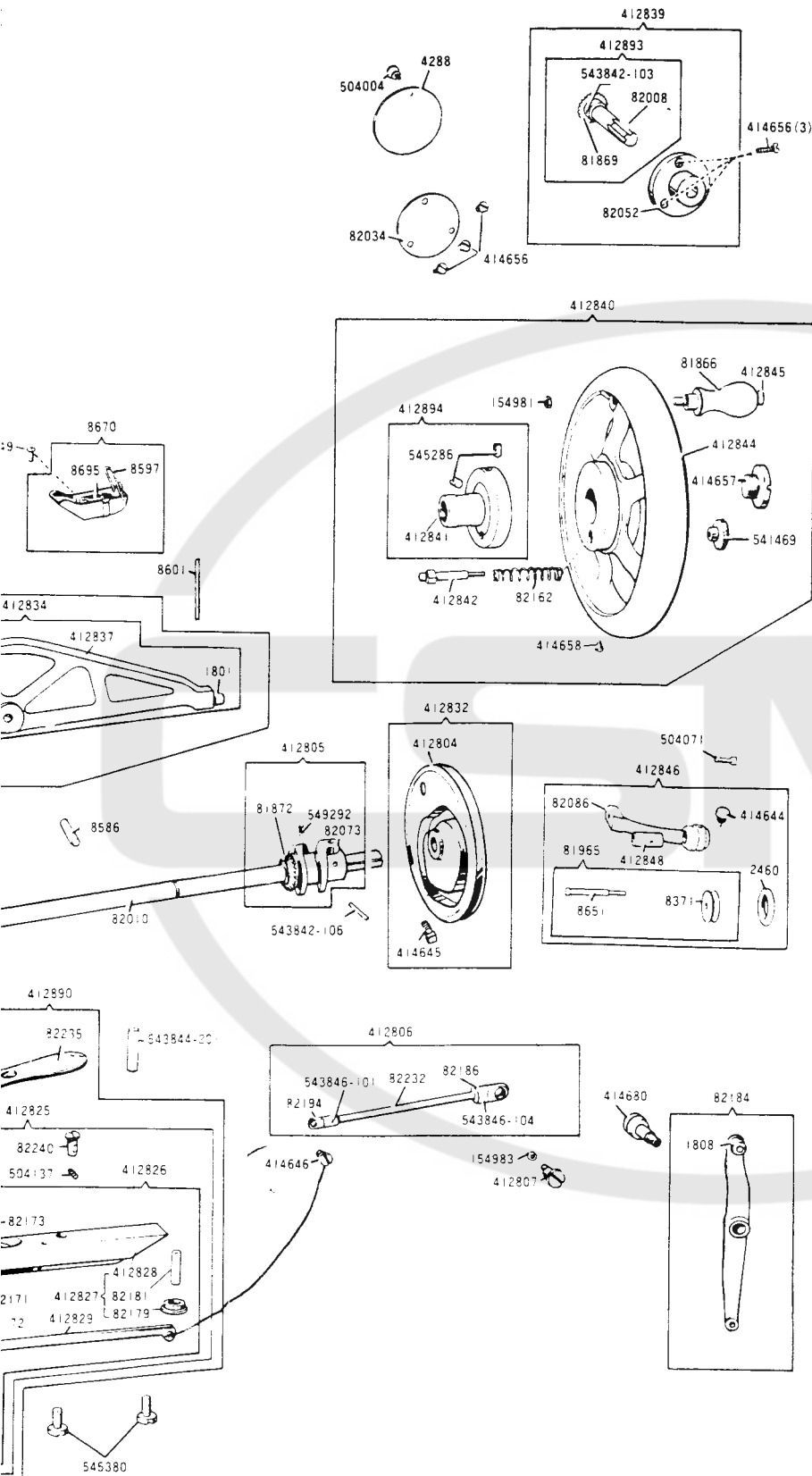
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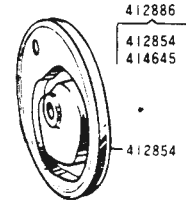
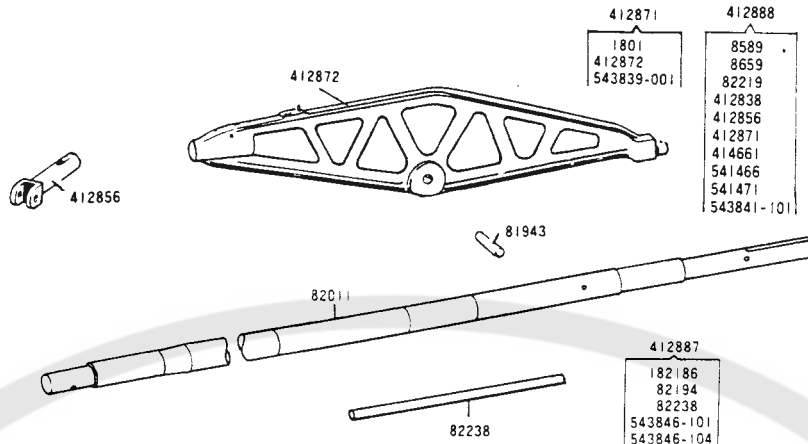
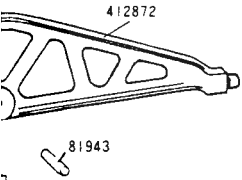


M/C. 29U172A PARTS WHICH DIFFER FROM M/C. 29U171

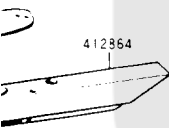


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M/C. 29U173A PARTS WHICH DIFFER FROM M/C. 29U171A



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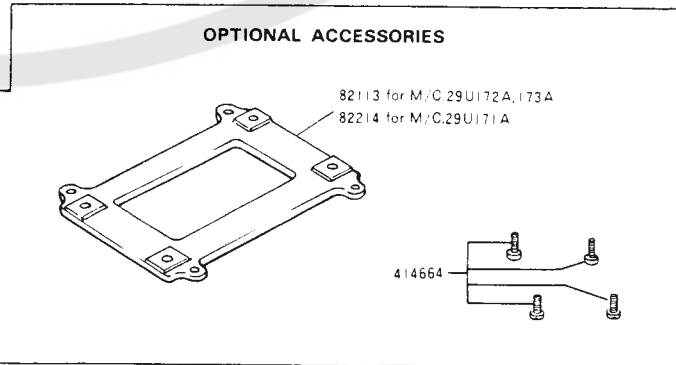
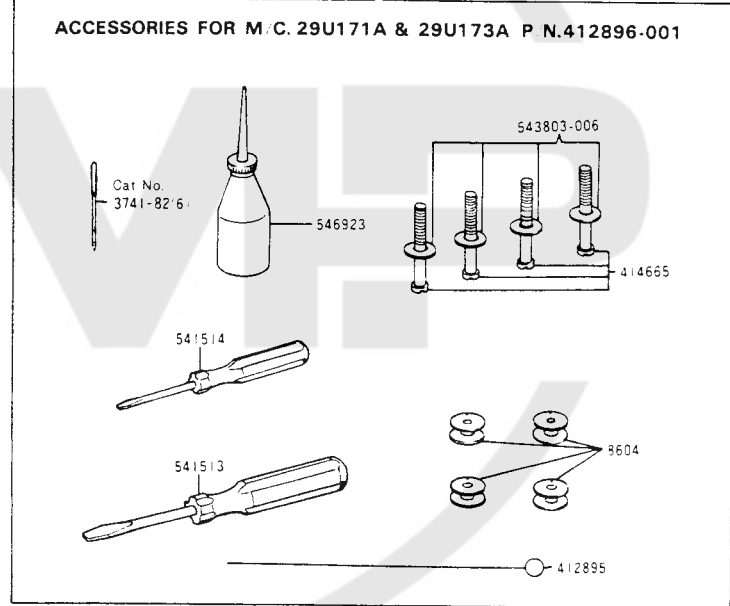
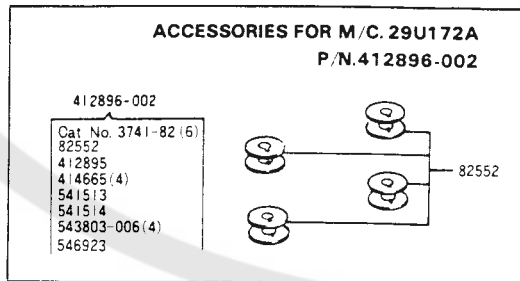
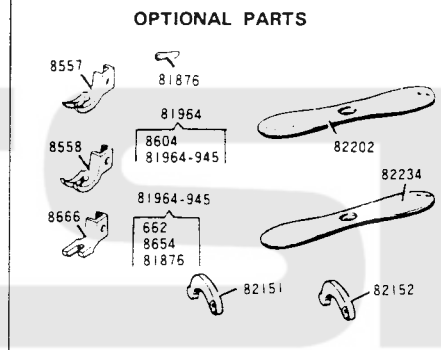
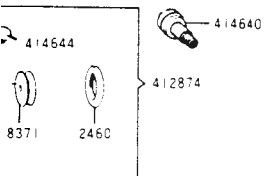
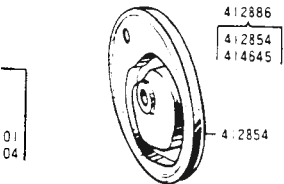
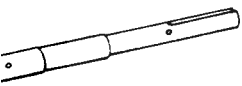


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412865
81952
82201
412861

412861
82240
412862
504137



NUMERICAL LIST OF PARTS FOR 200111A MACHINE

Part No.	Description	Part No.	Description
241	Shuttle Carrier Spring Screw	82173	Needle Plate Releasing Lever
662	Shuttle Tension Regulating Screw	82174	Pinion Cover Plate
1177-350	Vibrating Presser Lifting Lever Shaft	82176	Rack (Short)
	Lever Clamping Screw	82177	Shuttle Carrier
1801	Needle Bar Driving Lever Cam Roller and Stud	82179	Shuttle Carrier Driving Pinion Bushing
1808	Shuttle Driving Cam Roller and Stud	82180	Shuttle Carrier Following Pinion
1816	Feed Motion Ring Slide Bar Roller and Stud	82181	Shuttle Carrier Following Pinion Stud
2102	Tension (Side) Disc (2)	82184	Shuttle Driving Lever with 1808
2103	Tension (Side) Spring	82186	Shuttle Driving Lever Connecting Rod End (Back)
2460	Bobbin Winder Spindle Pulley Rubber Ring	82188	Stitch Regulator
4268	Arm Side Cover (Back)	82194	Shuttle Driving Lever Connecting Rod End (Front)
4449	Shaft Bushing	82219	Check Lever Tension Spring
8371	Bobbin Winder Spindle Pulley	82230	Stitch Regulator Grib
8564	Foot Bar Revolving Joint	82232	Shuttle Driving Lever Connecting Rod
8571	Foot Bar Revolving Joint Washer	82235	Needle Plate (Fine and Medium Needle Holes)
8574	Head Revolving Bushing Friction Spring	82240	Needle Plate Hinge Pin
8577	Head Revolving Bush Supporting Washer	84113	Tension (Top) Disc Washer (Leather)
8580	Needle Bar Driving Lever Joint Pin	109535	Head Revolving Bush Stop Thumb Screw
8589	Needle Bar Piston Joint Pin	113218	Vibrating Presser Roller
8597	Oil Cup Spring	154981	Hand Wheel Handle Spindle Nut
8601	Spool Pin	154983	Shuttle Driving Lever Eccentric Stud Nut
8603	Shuttle and Bobbin Complete 8603-945, 8604	412804	Needle Bar Cam and Pulley Wheel
8603-345	Shuttle Complete 8603, 8611, 8654	412805	Shuttle Driving Cam and Gear Complete 81271, 82177, 82179
8604	Shuttle Bobbin	412806	Shuttle Driving Lever Connecting Rod Complete 82186, 82194, 82232, 843846-101, 843846-104
8610	Shuttle Carrier Spring	412807	Shuttle Driving Lever Eccentric Stud
8611	Shuttle Tension Spring	412808	Head of Machine
8617	Tension (Top) Cup (Release)	412809	Tension (Top) Adjusting Stud
8618	Tension (Top) Disc (2)	412810	Tension (Side) Adjusting Stud Complete (for Agent) 412811, 543870
8619	Tension (Top) Spring	412811	Tension (Side) Adjusting Stud
8620	Thread Eyelet (Head of Arm)	412812	Head Revolving Bush
8651	Bobbin Winder Spindle	412813	Vibrating Presser Lifting Lever Shaft
8654	Shuttle Body	412814	Vibrating Presser Lifting Lever Shaft Lever
8656	Needle Bar Thread Tension Spring	412815	Vibrating Presser Spring Bar
8659	Check Lever	412816	Foot Bar Revolving Joint Complete 82055, 82056, 504504 (2)
8673	Oil Cup with 8675, 8676	412818	Feed Motion Bell Crank Lever
8675	Foot Bar	412821	Needle Bar Piston Joint
8696	Oil Cup Oil Pad (Feet)	412822	Needle Bar Complete 8656, 412823, 412831, 543819 (2), 543830
81358	Needle Bar Clamp	412823	Needle Bar
81366	Hand Wheel Handle	412825	Shuttle Driving Gear Box 412826 with 82240 & 82177
81368	Vibrating Presser Roller Pin	412826	Shuttle Driving Gear Box Complete 82171, 82172, 82173, 82174, 82176, 82177, 412827, 412828, 412829, 412830, 412831, 504103 (2), 543847
81369	Hand Wheel Shaft Gear	412827	Shuttle Driving Gear Box 412828 with 82179 & 82181
81372	Shuttle Driving Cam Gear	412828	Shuttle Driving Gear Box
81385	Bobbin Winder Spindle Complete (8371 & 8651) for Agent	412829	Rack (Long)
82007	Feeding Foot	412830	Needle Bar Clamp Complete 81358, 504383
82008	Hand Wheel Shaft	412831	Shuttle Driving Gear Box 412827 with 82240 & 82177 for Agent
82010	Shaft (Short)	412832	Needle Bar Cam and Pulley Wheel with 412815
82034	Arm Side Cover (Front)	412833	Needle Bar Driving Lever Complete 8580, 8650, 82219, 412821, 412834, 412835, 412836, 543846, 543847, 543848-101
82032	Hand Wheel Hub	412834	Needle Bar Driving Lever (Body) Complete 1091, 412837, 543839-001
82052	Feed Motion Ring Slide Bar	412837	Needle Bar Driving Lever (Body)
82053	Foot Bar Revolving Joint Bearing	412838	Check Lever Tension Stud
82054	Foot Bar Revolving Joint Bearing Complete 8564, 8571, 82054	412839	Hand Wheel Hub Complete 80056, 412839
82055	Foot Bar Revolving Joint Slide Rod		
82059	Lifter		
82073	Shuttle Driving Cam		
82086	Bobbin Winder Frame		
82116	Tension (Side) Thread Guide Pin		
82123	Head Revolving Bush Handle		
82129	Vibrating Presser Spring		
82131	Vibrating Presser Spring Bar Collar		
82149	Feed Motion Cam Wheel with 81368, 113218		
82150	Vibrating Presser Lifting Lever (for Medium Work)		
82155	Vibrating Presser Lifting Lever Shaft Adjusting Lever		
82160	Hand Wheel Stop Motion Plunger Spring		
82171	Needle Plate Locating Plunger		
82172	Needle Plate Locating Plunger Spring		

Part No.	Description	Part No.	Description
412840	Hand Wheel and Stop Motion Complete 81866, 82162, 154981, 412842, 412844, 412845, 412894, 41-657, 414658, 541469	514466	Check Lever Tension Stud Nut
Lever		514468	Vibrating Presser Spring Bar Adjusting Nut
412841	Hand Wheel Stop Motion Flanged Bushing	541469	Hand Wheel Stop Motion Plunger Thumb Nut
412842	Hand Wheel Stop Motion Plunger	541471	Check Lever Thread Take-up Adjusting Screw Lock Nut
412844	Hand Wheel	543839-001	Check Lever Spring Steady Pin
412845	Hand Wheel Handle Spindle	543841-104	Check Lever Joint Pin
412846	Bobbin Winder Complete 2400, 3001, 3001, 82086, 412848, 414644	543842-103	Head Revolving Bush Friction Spring Pin
412848	Bobbin Winder Eccentric	543842-103	Feed Motion Cam Wheel Pin
412880	Head of Machine Complete 8574, 8577, 8617, 8618 (2), 8619, 8620, 8675, 82007, 82059, 82116, 82123, 82129, 82131, 82155, 82188, 82230, 84113, 109535, 412808, 412809, 412812, 412813, 412815, 412816, 412818, 412822, 412881, 412891, 412892, 414648 (2), 414649, 414650, 414651, 414652, 414653, 414654, 504145-452 (3), 541468, 543841-104, 543846-104, 545303 (2), 545470	543842-106	Needle Bar Cam and Pulley Wheel Pin
Connecting Rod		543842-106	Shuttle Driving Cam Gear Pin
Connecting Rod		543844-201	Shuttle Driving Gear Box Position Pin
Connecting Rod		543846-101	Shuttle Driving Lever Connecting Rod End Pin (Front)
Connecting Rod		543846-104	Shuttle Driving Lever Connecting Rod End Pin (Back)
Medium Needle		543846-104	Foot Bar Revolving Joint Hinge Pin
Needle (Leather)		543847	Needle Plate Releasing Lever Hinge Pin
Top Thumb Screw		544383	Needle Bar Needle Clamping Screw
Thumb Nut		545296	Hand Wheel Stop Motion Flanged Bushing Binding Screw (3)
Eccentric Stud		545303	Head Revolving Bush Handle Screw (2)
Key Wheel		545319	Needle Bar Thread Tension Spring Screw (2)
Gear Complete		545380	Shuttle Driving Gear Box Screw (2)
Connecting Rod		545870	Tension (Top) Adjusting Stud Thumb Nut
412892, 412894		545470	Tension (Side) Adjusting Stud Thumb Nut
412893	Hand Wheel Shaft Complete 81869, 82008, 543842-103	549392	Shuttle Driving Cam Gear Set Screw
Eccentric Stud		549393	Oil Cup Screw
Stud		549380	Needle Bar Clamp Screw
Stud Complete			
545470			
Stud			
Hand Lever Shaft			
Hand Lever Shaft			
Bar			
Complete			
(2)			
Lever			
412892, 412893, 412894			
Box 412896 with			
Complete			
82174, 82176, 412897, 412898, 414638			
Box 412898 with			
Box			
Complete 81856, 544393			
Box 412897 with			
Front			
Key Wheel with			
Complete			
82821, 412894, 504145-452, 541471, 543841- 504145-452			
'Body' Complete			
001			
'Body'			
81852, 412893			

SUPPLEMENTARY PARTS LIST FOR 290172A MACHINE

(Same as the complete list for 290172A with the following exceptions)

PARTS ADDED

404	Shuttle Thread Pull-off Screw
7868	Shuttle Bobbin Retaining Spring
8666	Feeding Foot (For Waxed Thread)
80548	Tension (Side) Spring
81888	Needle Bar Clamp
81943	Needle Bar Driving Lever Joint Pin
81951	Shuttle Thread Pull-off
81953	Shuttle and Bobbin Complete 81950-81952, 82552
81952-945	Shuttle Complete 404, 7868, 81951, 81993, 81994, 109132, 109133
81993	Shuttle Body
81994	Shuttle Tension Spring
82011	Shaft (Lower)
82088	Bobbin Winder Spindle with 15072
82089	Bobbin Winder Spindle Complete (8371 & 82088) for Asent
82201	Needle Plate (Fine and Medium Needle Holes)
82203	Needle Plate Locating Plunger Spring
82204	Pinion Cover Plate
82205	Shuttle Carrier
82216	Shuttle Driving Lever Connecting Rod
82552	Shuttle Bobbin
109132	Shuttle Tension Regulating Screw
109133	Shuttle Bobbin Retaining Spring Screw
412812	Tension (Side) Adjusting Stud Complete 2102 (2), 2103, 412811, 545470
412854	Needle Bar Cam and Pulley Wheel
412855	Shuttle Driving Lever Connecting Rod Complete 82136, 82194, 82236, 543846- 101, 543846-104
41-830	Needle Bar Hinge Joint

Part No.		Description	Part No.		Description
ting	412857	Needle Bar Complete 8656, 412858, 412859, 545319 (2), 549380	412822	Needle Bar Complete 8656, 412823, 412830, 545319 (2), 549380	
mb Nut	412858	Needle Bar	412823	Needle Bar	
ng	412859	Needle Bar Clamp Complete 81888, 544383	412825	Shuttle Driving Gear Box 412826 with 82240 & 504137	
	412861	Shuttle Driving Gear Box 412862 with 82240 & 504137	412826	Shuttle Driving Gear Box Complete 82171, 82172, 82173, 82174, 82176, 82180, 412827, 412829, 412882, 412889, 414642, 504103 (2), 543847	
g Pin	412862	Shuttle Driving Gear Box Complete 82171, 82173, 82176, 82180, 82203, 82204, 82205, 412829, 412863, 412867, 414642, 504103 (2), 543847	412827	Shuttle Driving Gear Box 412828 with 82179 & 82181	
n	412863	Shuttle Driving Gear Box 412864 with 82179 & 82181	412828	Shuttle Driving Gear Box	
Pin	412864	Shuttle Driving Gear Box	412830	Needle Bar Clamp Complete 81858, 544383	
od	412865	Shuttle Driving Gear Box Complete 82201, 81952, 412861	412831	Shuttle Driving Gear Box 412827 with 82240 & 504137	
od	412866	Shuttle Driving Gear Box 412863 with 82240 & 504137	412832	Needle Bar Cam and Pulley Wheel with 414645	
	412867	Shuttle Carrier Driving Pinion	412833	Needle Bar Driving Lever Complete 8589, 8659, 82219, 412821, 412834, 412838, 414661, 541466, 541471, 543841-101	
	412871	Needle Bar Driving Lever (Body) Complete 1801, 414872, 543839-001	412834	Needle Bar Driving Lever (Body) Complete 1801, 412837, 543839-001	
	412872	Needle Bar Driving Lever (Body)	412837	Needle Bar Driving Lever (Body)	
	412874	Bobbin Winder Complete 2460, 8371, 15072, 82086, 82088, 82089, 412848, 414644	412846	Bobbin Winder Complete 2460, 8371, 8651, 82086, 412848, 414644	
(2) Screw	412879	Head of Machine Complete 8574, 8577, 8617, 8618 (2), 8619, 8620, 8666, 8675, 82059, 82116, 82123, 82129, 82131, 82155, 82188, 82230, 84113, 109535, 412808, 412809, 412812, 412813, 412815, 412816, 412818, 412819, 412857, 412881, 412892, 414648 (2), 414649, 414650, 414651, 414652, 414653, 414654, 504145-452 (3), 541468, 543841-004, 543846-104, 545303 (2), 545470	412880	Head of Machine Complete 8574, 8577, 8617, 8618 (2), 8619, 8620, 8675, 82007, 82059, 82116, 82123, 82129, 82131, 82155, 82188, 82230, 84113, 109535, 412808, 412809, 412812, 412813, 412815, 412816, 412818, 412822, 412891, 412892, 414648 (2), 414649, 414650, 414651, 414652, 414653, 414654, 504145-452 (3), 541468, 543841-004, 543846-104, 545303 (2), 545470	
	412886	Needle Bar Cam and Pulley Wheel with 414645	412882	Shuttle Carrier Complete 241, 8619, 82177	
	412888	Needle Bar Driving Lever Complete 8589, 8659, 82219, 412838, 412856, 412871, 414661, 541466, 541471, 543841-101	412889	Shuttle Carrier Driving Pinion	
	414640	Shuttle Driving Lever Bearing Screw	412890	Shuttle Driving Gear Box Complete 8603, 82235, 412825	
			412891	Tension (Side) Adjusting Stud Complete 2102 (2), 2103, 412811, 545470	
			414680	Shuttle Driving Lever Bearing Screw	

PARTS REMOVED

n	241	Shuttle Carrier Spring Screw
-945,	662	Shuttle Tension Regulating Screw
	8103	Tension (Side) Spring
	8586	Needle Bar Driving Lever Joint Pin
	8603	Shuttle and Bobbin Complete 8603-945, 8604
	8603-945	Shuttle Complete 662, 8611, 8654
	8604	Shuttle Bobbin
	8610	Shuttle Carrier Spring
	8611	Shuttle Tension Spring
	8651	Bobbin Winder Spindle
dle	8654	Shuttle Body
ing	81358	Needle Bar Clamp
	81965	Bobbin Winder Spindle Complete (8371 & 8651) for Agent
Rod	82007	Feeding Foot
	82010	Shaft (Short)
	82172	Needle Plate Locating Plunger Spring
	82174	Pinion Cover Plate
crew	82177	Shuttle Carrier
Complete	82177	Shuttle Driving Lever Connecting Rod
	82235	Needle Plate (Fine and Medium Needle Holes)
Rod	412824	Needle Bar Cam and Pulley Wheel
43846-	412826	Shuttle Driving Lever Connecting Rod Complete 82186, 82194, 82236, 543846-101, 543846-104
	412821	Needle Bar Piston Joint

SUPPLEMENTARY PARTS LIST FOR 29U173A MACHINE

(Same as the complete list for 29U171A with the following exceptions)

PARTS ADDED

81934	Needle Bar Driving Lever Joint Pin
82011	Shaft (Long)
82238	Shuttle Driving Lever Connecting Rod
412894	Needle Bar Cam and Pulley Wheel
412896	Needle Bar Piston Joint
412871	Needle Bar Driving Lever (Body) Complete 1801, 412872, 543839-001
412872	Needle Bar Driving Lever (Body)
412886	Needle Bar Cam and Pulley Wheel with 414645
412887	Shuttle Driving Lever Connecting Rod Complete 82186, 82194, 82236, 543846-101, 543846-104
412888	Needle Bar Driving Lever Complete 8589, 8659, 82219, 412838, 412856, 412871, 414661, 541466, 541471, 543841-101
414640	Shuttle Driving Lever Bearing Screw

<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
<u>PARTS REMOVED</u>		<u>OPTIONAL ACCESSORIES</u>	
Lever	8586 Needle Bar Driving Lever Joint Pin	82113 Machine Base (for 29U172A, 173A M/C)	
	82010 Shaft (Short)	82214 Machine Base (for 29U171A M/C)	
	82232 Shuttle Driving Lever Connecting Rod	412899 Belt Guard Complete 412900,	
	412804 Needle Bar Cam and Pulley Wheel	500257-850 (2), 543803-005 (2)	
	412806 Shuttle Driving Lever Connecting Rod	412900 Belt Guard	
	Complete 82186, 82194, 82232, 543846-101, 5438-c-104	414664 Machine Screw (for Fastening Base to Machine) (4)	
	412821 Needle Bar Piston Joint	500257-850 Belt Guard Screw (2)	
	412832 Needle Bar Cam and Pulley Wheel with 414645	543803-005 Belt Guard Washer (2)	
	412833 Needle Bar Driving Lever Complete		
	8589, 8659, 82219, 412821, 412834, 412838, 414661, 541466, 541471, 543841-101		
	412834 Needle Bar Driving Lever (Body) Complete		
	1801, 412837, 543839-001		
	412837 Needle Bar Driving Lever (Body)		
	414680 Shuttle Driving Lever Bearing Screw		

OPTIONAL PARTS

	662 Shuttle Tension Regulating Screw
	8557 Feeding Foot (Narrow Fork, Fine)
	8558 Feeding Foot (Narrow Fork, Coarse)
	8604 Shuttle Bobbin
	8654 Shuttle Body
	8666 Feeding Foot (for Waxed Thread)
	81876 Shuttle Tension Spring (Heavy) (for 29U171A, 173A M/C)
	81964 Shuttle and Bobbin Complete (for Heavy Work) (for 29U171A, 173A M/C)
	81964-945 Shuttle Complete (for Heavy Work)
	82151 Vibrating Presser Lifting Lever (for Light Work)
	82152 Vibrating Presser Lifting Lever (for Heavy Work)
	82202 Needle Plate (Medium and Coarse Needle Holes) (for 29U172A M/C)
	82234 Needle Plate (Medium and Coarse Needle Holes) (for 29U171A, 173A M/C)

ACCESSORIES FOR 29U171A AND 29U173A MACHINES

	Cat.No.	
	3741-82	Needle (29 X 4) #18 (6)
	8604	Shuttle Bobbin (for #8603-945) (for 29U171A, 173A M/C) (4)
	412895	Needle Bar Threading Wire
	412896-001	Accessories (for 29U171 & 173 M/C)
	414665	Machine Screw (for Fastening Machine to Power Table) (4)
	541513	Screw Driver (Large)
	541514	Screw Driver (Small)
	543803-006	Machine Screw Washer (4)
	546923	Oiler (Filled with 130 cc Singer Type "B" Oil)

ACCESSORIES FOR 29U172A MACHINE

	Cat.No.	
	3741-82	Needle (29 X 4) #18 (6)
	82552	Shuttle Bobbin (for #81952) (for 29U172A M/C) (4)
	412895	Needle Bar Threading Wire
	412896-002	Accessories (for 29U172A M/C)
	414665	Machine Screw (for Fastening Machine to Power Table) (4)
	541513	Screw Driver (Large)
	541514	Screw Driver (Small)
	543803-006	Machine Screw Washer (4)
	546923	Oiler (Filled with 130 cc Singer Type "B" Oil)