

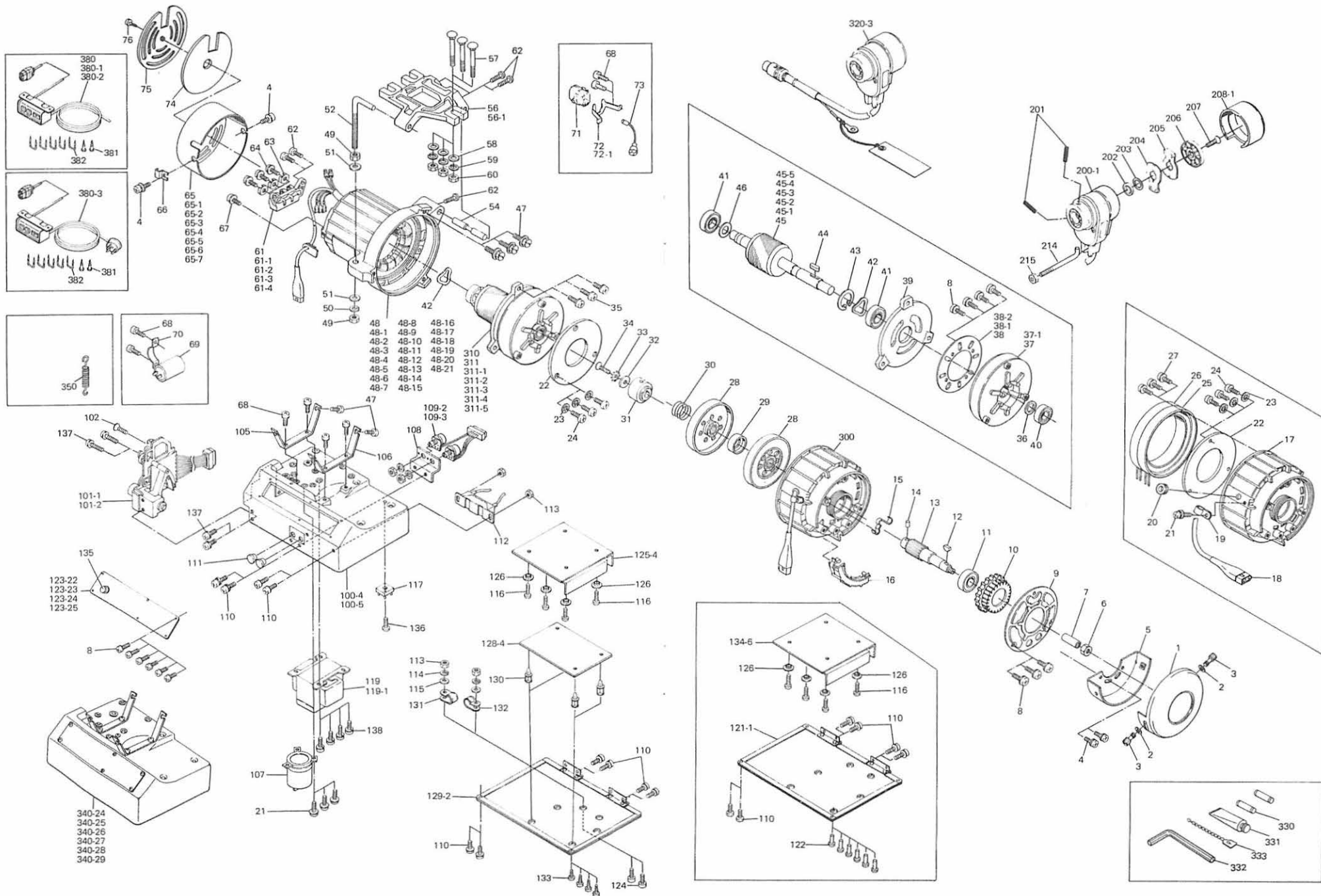
Parts Manual

Needle Positioning Motor

The logo for the Singer 457 Industrial Sewing Products is displayed on a black background. It features the word "SINGER" in a bold, white, sans-serif font. To the right of "SINGER" is the number "457" in a large, white, sans-serif font. Below the number "457" is the text "Industrial Sewing Products" in a smaller, white, sans-serif font. The entire logo is set against a green background that has a diagonal black stripe running from the top right to the bottom left. The stripe contains the logo text in white.

SINGER **457**
Industrial Sewing Products

Parts Manual



Parts Manual

REF. NO.	NOTE	PART NO.	DESCRIPTION	AMT. REG.
1		490762	Pulley Cover B	1
2		490805	Washer	2
3		490806	Screw	2
4		490708	Screw	4
5		490807	Pulley Cover A	1
6		490670	Nut M10	1
7		490808	Tube	1
8		490809	Screw	13
9		490810	Cover	1
10		490811	Adjustment Collar	1
11		490812	Ball Bearing 6302	1
12		490672	Key	1
13		490813	Output Shaft	1
14		490814	Key	1
15		490815	Spring	1
16		490816	Filter Assembly	1
17		490817	Clutch End Cover	1
18		490818	Connector Assembly	1
19		490819	Strain Relief	1
20		490820	Bushing	1
21		490821	Screw	4
22		490822	Friction Disc	2
23		490823	Toothed Lock Washer	6
24		490824	Screw	6
25		490825	Brake Coil Assembly	1
26		490826	Clutch Coil Assembly	1
27		490827	Screw	3
28		490828	Moving Disc Assembly	2
29		490829	Nylon Ring	1
30		490830	Spring	1
31		490831	Bearing Housing	1
32		490832	Washer	1
33		490833	Toothed Lock Washer	1
34		490834	Screw	1
35		490691	Screw	3
36		490835	Collar	1
37	*10, *20, *103, *104, *105, *106, *107, *108, *109, *110, *111, *112, *113, *114, *115, *116, *117, *120, *121,	490836	Flywheel	1
37-1	*118, *119, *122, *123,	365500	Flywheel	1
38	*10, *20, *104, *105, *106 *110, *111, *112, *113, *114, *120, *121,	490837	Fan	1

REF. NO.	NOTE	PART NO.	DESCRIPTION	AMT. REG.
38-1	*103, *107, *108, *109, *115, *116, *117,	365501	Fan	1
38-2	*118, *119, *122, *123,	365502	Fan	1
39		490838	Motor End Cover	1
40		490839	Ball Bearing 6202	1
41		490693	Ball Bearing 6203	2
42		490692	Thrust Wave Washer	2
43		490840	Retaining Ring	1
44		490841	Key	1
45	*20, *110, *111, *112, *113, *114, *120,	490842-001	Rotor Assembly	1
45-1	*10, *107, *108, *109, *121	490842-002	Rotor Assembly	1
45-2	*103, *115, *116, *117,	490984	Rotor Assembly	1
45-3	*104, *105, *106,	490985	Rotor Assembly	1
45-4	*118, *123,	365503	Rotor Assembly	1
45-5	*119, *122,	365504	Rotor Assembly	1
46		490843	Collar	1
47		490844	Screw	7
48	*20	490845-001	Frame Assembly	1
48-1	*10	490845-002	Frame Assembly	1
48-2	*115	490986	Frame Assembly	1
48-3	*116 *117	490987	Frame Assembly	1
48-4	*103	490988	Frame Assembly	1
48-5	*104	490989	Frame Assembly	1
48-6	*105	490990	Frame Assembly	1
48-7	*106	490991	Frame Assembly	1
48-8	*107	490992	Frame Assembly	1
48-9	*108	490993	Frame Assembly	1
48-10	*110	490994	Frame Assembly	1
48-11	*111	490995	Frame Assembly	1
48-12	*112	490996	Frame Assembly	1
48-13	*113	490997	Frame Assembly	1
48-14	*114	490998	Frame Assembly	1
48-15	*109	365505	Frame Assembly	1
48-16	*118	365506	Frame Assembly	1
48-17	*119	365507	Frame Assembly	1
48-18	*120	365508	Frame Assembly	1
48-19	*121	365509	Frame Assembly	1
48-20	*122	365510	Frame Assembly	1
48-21	*123	365511	Frame Assembly	1
49		490698	Nut M10	2
50		490698	Spring Washer M10	1
51		490698	Washer	2
52		490846	Belt Adjusting Bolt	1

REF. NO.	NOTE	PART NO.	DESCRIPTION	AMT. REG.
54		490848	Belt Tightener Hinge Pin	1
56	*10, *20, *103, *104, *105, *106, *107, *108, *109, *110, *114, *115, *116, *117, *118, *119, *120, *121, *122, *123,	490850	Belt Tightener	1
56-1	*111, *112, *113,	490999	Belt Tightener	1
57		490851	Mounting Bolt	3
58		490852	Washer M8	3
59		490853	Spring Washer M8	3
60		490854	Nut M8	3
61	*20, *113, *119,	490855-001	Terminal Block	1
61-1	*10, *118,	490855-002	Terminal Block	1
61-2	*104, *111, *112, *114,	365220	Terminal Block	1
61-3	*120, *122,	365512	Terminal Block	1
61-4	*121, *123,	365513	Terminal Block	1
62		490856	Screw	5
63		490733	Terminal Washer	3
64		490733	Terminal Screw	3
65	*20, *113, *119,	490857	End Cover	1
65-1	*10, *18	490858	End Cover	1
65-2	*103, *105, *108, *109 *110, *116, *117	365221	End Cover	1
65-3	*104, *114	365222	End Cover	1
65-4	*107	365223	End Cover	1
65-5	*111	365224	End Cover	1
65-6	*112	365225	End Cover	1
65-7	*115	365514	End Cover	1
66		490859	Strain Relief	1
67		490860	Grounding Screw	1
68	*10, *20	490706	Screw	*10-14 *20-12
69	*10, *103, *107, *108, *109, *115, *116, *117, *118, *121, *123	490702	Capacitor	1
70	*10, *103, *107, *108, *109, *115, *116, *117, *118, *121, *123	490705	Mounting Plate	1
71	*103, *105, *106, *107, *108, *109, *110, *115, *116, *117	375226	Connector	1
72	*103, *105, *106, *108, *109, *110, *115, *116, *117	365227	Mounting Plate for Connector	1
72-1	*107	365228	Mounting Plate for Connector	1
73	*103, *105, *106, *107, *108, *109, *110, *115, *116, *117	365229	Grounding Terminal	1
74	*115	365537	Filter	1

REF. NO.	NOTE	PART NO.	DESCRIPTION	AMT. REG.
75	*115	365538	Filter Cover	1
76	*115	365539	Screw	1
100-4	*150	365515	Control Box	1
100-5	*153	365516	Control Box	1
101-1	*150	490864-002	Speed Adjuster Assembly	1
101-2	*153	490864-003	Speed Adjuster Assembly	1
102		490865	Screw	1
105		490868	Mounting Plate A	1
106		490869	Mounting Plate B	1
107		490870	Capacitor	1
108		490871	Mounting Plate	1
109-2	*150	365517	Potentiometer Assembly	1
109-3	*153	365518	Potentiometer Assembly	1
110		490873	Screw	10
111		490874	Cap	2
112		490875	Resister Assembly	1
113		490876	Nut	4
116		490889	Screw	4
117		490890	Rectifier	1
119	*152 *155	490892-001	Transformer (Pri. 220V)	1
119-1	*151, *154	490892-002	Transformer (Pri. 115V)	1
121-1	*150	490894	Cover Assembly	1
122	*150	490895	Nylon Bushing	6
123-22	*151	365540	Connector Panel Assembly	1
123-23	*152	365541	Connector Panel Assembly	1
123-24	*154	365542	Connector Panel Assembly	1
123-25	*155	365543	Connector Panel Assembly	1
124	*143	490897	Screw	2
125-4	*153	365544	P.C. Board "M" Assembly	1
126		490899	Nylon Washer	4
128-4	*153	365545	P.C. Board "L" Assembly	1
129-2	*153	365546	Cover Assembly	1
130	*153	490903	Mounting Spacer	4
131	*153	490904	Strain Relief	1
132	*153	490905	Strain Relief	1
133	*153	490906	Tapping Screw	4
134-6	*150	365547	P.C. Board "C" Assembly	1
135		490908	Fuse Holder	1
136		365528	Screw	1
137		365529	Screw	4
138		365530	Screw	
200-1		490909-002	Tacho-generator Assembly	1
201		490910	Mounting Screw	2
202		490911	Spacer	1

REF. NO.	NOTE	PART NO.	DESCRIPTION	AMT. REG.
203		490912	Spacer for Magnet Carrier Plate	1
204		490913	Magnet Carrier Plate	1
205		490914	Magnet Carrier Plate	1
206		490915	Magnet Carrier Plate Holder	1
207		490916	Screw	1
208-1		490917-001	Cover	1
214		365549	Stabilizer	1
215		365550	Nut	1
300		490922	Clutch End Cover Assembly	1
310	*20, *110, *111, *112, *113, *114, *120	490923	Rotor and Flywheel Assembly	1
311	*10, *121	490924	Rotor and Flywheel Assembly	1
311-1	*103, *115, *116, *117	365230	Rotor and Flywheel Assembly	1
311-2	*104, *105, *106	365231	Rotor and Flywheel Assembly	1
311-3	*107, *108, *109	365534	Rotor and Flywheel Assembly	1
311-4	*118, *123	365535	Rotor and Flywheel Assembly	1
311-5	*119, *122	365536	Rotor and Flywheel Assembly	1
320-3		490925-004	Synchronizer	1
330		490926	Fuse	2
331		490927	Special Lining Lubricant	1
332		490928	Hexagon Wrench	1
333	*80	365232	Nylon Band	1
340-24		NCB050302	Control Box Assembly	1
340-25		NCB050307	Control Box Assembly	1
340-26		NCB050308	Control Box Assembly	1
340-27		NCB050402	Control Box Assembly	1
340-28		NCB050407	Control Box Assembly	1
340-29		NCB050408	Control Box Assembly	1
350		490929	Spring Assembly	1
380	*103, *107, *108, *109, *115, *117	365234	Push button Switch for Single Phase	1
380-1	*105, *106, *110	365235	Push button Switch for three Phase	1
380-2	*104, *114	365236	Push Switch for double voltage	1
380-3	*116	365237	Push Switch with Plug	1
381	*103, *104, *105, *106, *107, *108, *109, *110, *114, *115, *116, *117	365238	Wood Screw	2
382	*103, *104, *105, *106, *107, *108, *109, *110, *114, *115, *116, *117	365239	Staple	5

NOTE:

*150	NCB 0503 - (- - is 02, 07 or 08)
*151	NCB 050302
*152	NCB0503.. (- - is 07 or 08)
*153	NCB 0504.. (- - is 02, 07 or 08)
*154	NCB 050402
*155	NCB 0504.. (is 07 or 08)
*10	3751602-01
*20	3753607-01
*103	3721702-08
*104	3723717-01
*105	3723727-08
*106	3723707-08
*107	3751508-08
*108	3751702-08
*109	3751707-08
*110	3753707-08
*111	3753517-02
*112	3753517-03
*113	3753526-02
*114	3753717-01
*115	3721707-08
*116	3721708-08
*117	3721708-08
*118	3651602-01
*119	3653607-01
*120	3753607-07
*121	3751602-07
*122	3653607-07
*123	3651602-07