



a-c motor control

auto starters type A

220-440-550-2200 volts
frames 1-2-3-4-5-10-11-12

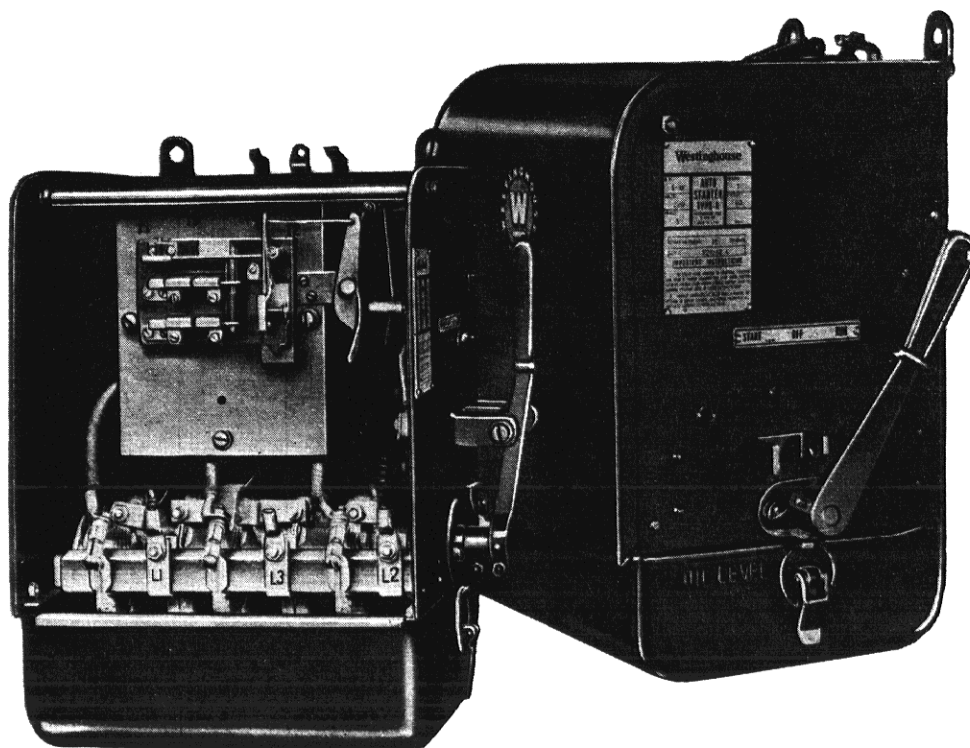
renewal
parts data
10-700A

page 1

general

This renewal parts data is made in two sections. The first section lists style numbers of variable parts that vary with horsepower, voltage, phase and frequency. It also refers user to table and page for common style numbers and parts.

Section two lists parts and style numbers commonly used in all type A auto-starters. Tables are designated according to frame size.



ordering information

- Name the part and give its style number.
- Give the complete nameplate reading.
- State method of shipment desired.
- Send all orders or correspondence to nearest sales office of the company.
- Combine orders to total at least five dollars as this is minimum charge.

November, 1955

supersedes RPD 10-700A dated May, 1953
mailed to: E/584; D61-6A,C,S; C/258

characteristics					style number of variable parts					for common parts	
frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no.	page no.
					one used	one used	one used	two used	one used		
1	5, 7 1/2	220	3	60	236 937	.....	▲	.....	244 703	2	17
1	10	220	3	60	236 937	.....	▲	.....	244 703	2	17
1	5 to 10	440	3	60	236 939	.....	▲	.....	243 164	2	17
1	5 to 10	550	3	60	236 941	.....	▲	.....	243 164	2	17
1	5, 7 1/2	220	2	60	236 936	.....	▲	.....	244 703	2	17
1	10	220	2	60	236 936	.....	▲	.....	244 703	2	17
1	5 to 10	440	2	60	236 938	.....	▲	.....	243 164	2	17
1	5 to 10	550	2	60	236 940	.....	▲	.....	243 164	2	17
2	5, 7 1/2	220	3	25	236 943	.....	▲	.....	261 659	4	21
2	10	220	3	25	236 943	.....	▲	.....	261 659	4	21
2	5 to 10	440	3	25	236 945	.....	▲	.....	261 660	4	21
2	5 to 10	550	3	25	236 947	.....	▲	.....	261 661	4	21
2	5, 7 1/2	220	2	25	236 942	.....	▲	.....	261 659	4	21
2	10	220	2	25	236 942	.....	▲	.....	261 659	4	21
2	5 to 10	440	2	25	236 944	.....	▲	.....	261 660	4	21
2	5 to 10	550	2	25	236 946	.....	▲	.....	261 661	4	21
2	15	220	3	60	236 949	.....	▲	.....	261 657	4	21
2	20 to 30	220	3	60	236 949	.....	▲	.....	261 657	4	21
2	15	440	3	60	236 951	.....	▲	.....	261 658	4	21
2	20 to 30	440	3	60	236 951	.....	▲	.....	261 658	4	21
2	20	550	3	60	236 953	.....	▲	.....	261 659	4	21
2	25 to 30	550	3	60	236 953	.....	▲	.....	261 659	4	21
2	15	220	2	60	236 948	.....	▲	.....	261 657	4	21
2	20 to 30	220	2	60	236 948	.....	▲	.....	261 657	4	21
2	15	440	2	60	236 950	.....	▲	.....	261 658	4	21
2	20 to 30	440	2	60	236 950	.....	▲	.....	261 658	4	21
2	20	550	2	60	236 952	.....	▲	.....	261 659	4	21
2	25 to 30	550	2	60	236 952	.....	▲	.....	261 659	4	21
3	15	220	3	25	236 955	.....	▲	.....	261 659	4	21
3	20 to 30	220	3	25	236 955	.....	▲	.....	261 659	4	21
3	15	440	3	25	236 957	.....	▲	.....	261 660	4	21
3	20 to 30	440	3	25	236 957	.....	▲	.....	261 660	4	21
3	20	550	3	25	236 959	.....	▲	.....	261 661	4	21
3	25 to 30	550	3	25	236 959	.....	▲	.....	261 661	4	21
3	15	220	2	25	236 954	.....	▲	.....	261 659	4	21
3	20 to 30	220	2	25	236 954	.....	▲	.....	261 659	4	21
3	15	440	2	25	236 956	.....	▲	.....	261 660	4	21
3	20 to 30	440	2	25	236 956	.....	▲	.....	261 660	4	21
3	20	550	2	25	236 958	.....	▲	.....	261 661	4	21
3	25 to 30	550	2	25	236 958	.....	▲	.....	261 661	4	21
3	50	550	2	60	236 964	.....	▲	.....	261 659	4	21
3	40	550	2	60	236 964	.....	▲	.....	261 659	4	21
3	40 to 50	440	3	60	236 962	.....	▲	.....	261 657	4	21
3	40 to 50	220	3	60	236 960	.....	▲	.....	261 659	4	21
3	50	550	3	60	236 965	.....	▲	.....	261 659	4	21
3	40	550	3	60	236 965	.....	▲	.....	261 659	4	21
3	40 to 50	440	3	60	236 963	.....	▲	.....	261 658	4	21
3	40 to 50	220	3	60	236 961	.....	▲	.....	261 657	4	21
12	60 to 100	2200	2	25	236 976	246 063	275 502	244 793	261 657	6	23
5	60 to 100	550	2	25	236 975	.....	280 149	244 798	261 661	5	21
4	35 to 50	550	2	25	236 968	.....	273 210	244 784	261 661	4	21
3	20 to 30	550	2	25	236 958	.....	284 403	244 793	261 661	4	21
5	60 to 100	440	2	25	236 974	.....	280 147	244 798	261 660	5	21
4	35 to 50	440	2	25	236 967	.....	273 211	244 792	261 660	4	21
3	20 to 30	440	2	25	236 956	.....	272 814	244 694	261 660	4	21
5	60 to 100	220	2	25	236 973	.....	286 145	244 782	261 659	5	21
4	35 to 50	220	2	25	236 966	.....	273 212	244 791	261 659	4	21
3	20 to 30	220	2	25	236 954	.....	272 816	244 789	261 659	4	21
12	60 to 100	2200	2	25	236 976	246 063	275 501	262 577	261 657	6	23
3	15	440	2	25	236 956	.....	272 813	244 715	261 660	4	21
3	15	220	2	25	236 954	.....	272 814	244 694	261 659	4	21
2	15	550	2	60	236 952	.....	284 405	244 714	261 659	4	21
5	60 to 100	550	3	25	236 975	.....	280 147	244 798	261 661	5	21
4	35 to 50	550	3	25	236 968	.....	273 211	244 792	261 661	4	21
3	20 to 30	550	3	25	236 959	.....	272 814	244 694	261 661	4	21
2	15	440	2	60	236 950	.....	272 813	244 715	261 658	4	21
5	60 to 100	440	3	25	236 974	.....	280 146	244 693	261 660	5	21
4	35 to 50	440	3	25	236 967	.....	273 214	244 798	261 660	4	21
3	20 to 30	440	2	25	236 957	.....	272 818	244 784	261 657	4	21
2	15	220	2	60	236 948	.....	272 814	244 694	261 657	4	21
5	60 to 100	200	3	25	236 973	.....	280 144	273 945	261 659	5	21
4	35 to 50	220	3	25	236 966	.....	273 215	244 797	261 659	4	21
3	20 to 30	220	3	25	236 955	.....	272 815	244 693	261 659	4	21
12	125 to 200	2200	2	60	236 980	246 062	275 517	244 753	261 656	6	23
11	60 to 100	2200	2	60	236 972	246 062	275 502	244 753	261 656	6	23
3	15	550	3	25	236 959	.....	272 817	244 720	261 661	4	21
3	15	440	3	25	236 957	.....	272 819	244 724	261 660	4	21
5	125 to 200	550	2	60	236 979	.....	280 148	244 797	261 659	5	21
4	60 to 100	550	2	60	236 971	.....	273 213	244 783	261 659	4	21
3	35 to 50	550	2	60	236 964	.....	272 818	244 784	261 659	4	21

Negotiate with the nearest sales office of the company.

rs use an obsolete fuse panel which should be replaced by a modern overload relay panel. Negotiate with the nearest sales office of the company.

section one
autostarter variable parts

renewal
parts data
10-700A

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starter characteristics

style number of variable parts

for
common
parts

style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no.	page no.
						one used	one used	one used	two used	one used		
244 751,A	2	20 to 30	550	2	60	236 952	...	284 403	244 793	261 659	4	21
244 754,A	5	125 to 200	440	2	60	236 978	...	280 145	244 782	261 658	5	21
244 755,A	4	60 to 100	440	2	60	236 970	...	273 212	244 791	261 658	4	21
244 756,A	3	35 to 50	440	2	60	236 962	...	272 824	244 792	261 658	4	21
244 757,A	2	20 to 30	440	2	60	236 950	...	272 814	244 694	261 658	4	21
244 758,A,B	3	15	220	3	25	236 955	...	272 818	244 784	261 659	4	21
244 759,A	5	60 to 100	220	2	60	236 969	...	280 145	244 782	261 657	5	21
244 760,A	3	35 to 50	220	2	60	236 960	...	272 825	244 791	261 657	4	21
244 761,A	2	20 to 30	220	2	60	236 948	...	272 816	244 789	261 657	4	21
244 762,A	12	125 to 200	2200	3	60	236 980	246 062	275 516	244 779	261 656	6	23
244 763,A	11	60 to 100	2200	3	60	236 972	246 062	275 501	262 577	261 656	6	23
244 764,A	2	15	550	3	60	236 953	...	272 817	244 720	261 659	4	21
244 765,A	2	15	220	3	60	236 949	...	272 818	244 784	261 657	4	21
244 766,A	5	125 to 200	550	3	60	236 979	...	280 145	244 782	261 659	5	21
244 767,A	4	60 to 100	550	3	60	236 971	...	273 212	244 791	261 659	4	21
244 768,A,B	3	35 to 50	550	3	60	236 965	...	272 824	244 792	261 659	4	21
244 769,A	2	20 to 30	550	3	60	236 953	...	272 814	244 694	261 659	4	21
244 770,A	5	125 to 200	440	3	60	236 978	...	280 144	273 945	261 658	5	21
244 771,A	4	60 to 100	440	3	60	236 970	...	273 215	244 797	261 658	4	21
244 772,A,B	3	35 to 50	440	3	60	236 963	...	272 823	244 798	261 658	4	21
244 773,A	2	20 to 30	440	3	60	236 951	...	272 818	244 784	261 658	4	21
244 774,A	2	15	440	3	60	236 951	...	272 819	244 724	261 658	4	21
244 775,A	5	125 to 200	220	3	60	236 969	...	280 144	273 945	261 657	5	21
244 776,A,B	3	35 to 50	220	3	60	236 961	...	272 822	244 797	261 657	4	21
244 777,A	2	20 to 30	220	3	60	236 949	...	272 815	244 693	261 657	4	21
244 781,A	3	15	550	2	25	236 958	...	284 405	244 714	261 661	4	21
256 720,A	2	5.7 1/2	220	3	60	236 949	...	272 819	244 724	261 657	4	21
256 721,A	2	5.7 1/2	440	3	60	236 951	...	272 820	258 717	261 658	4	21
256 722,A	2	5.7 1/2	550	3	60	236 953	...	272 821	244 695	261 659	4	21
256 723,A	2	5.7 1/2	220	2	60	236 948	...	272 813	244 715	261 657	4	21
256 724,A	2	5.7 1/2	440	2	60	236 950	...	272 821	244 695	261 658	4	21
256 725,A	2	5.7 1/2	550	2	60	236 952	...	284 404	258 718	261 659	4	21
256 726,A	2	10	220	3	60	236 949	...	272 818	244 784	261 657	4	21
256 727,A	2	10	440	3	60	236 951	...	272 819	244 724	261 658	4	21
256 728,A	2	10	550	3	60	236 953	...	272 817	244 720	261 659	4	21
256 729,A	2	10	220	2	60	236 948	...	272 814	244 694	261 657	4	21
256 730,A	2	10	440	2	60	236 950	...	272 813	244 715	261 658	4	21
256 731,A	2	10	550	2	60	236 952	...	284 405	244 714	261 659	4	21
257 076,A	2	5.7 1/2	220	3	25	236 943	...	272 819	244 724	261 659	4	21
257 077,A	2	5.7 1/2	440	3	25	236 945	...	272 820	258 717	261 660	4	21
257 078,A	2	5.7 1/2	550	3	25	236 947	...	272 821	244 695	261 661	4	21
257 079,A	2	5.7 1/2	220	2	25	236 942	...	272 813	244 715	261 659	4	21
257 080,A	2	5.7 1/2	440	2	25	236 944	...	272 821	244 695	261 660	4	21
257 081,A	2	5.7 1/2	550	2	25	236 946	...	284 404	258 718	261 661	4	21
257 082,A	2	10	220	3	25	236 943	...	272 818	244 784	261 659	4	21
257 083,A	2	10	440	3	25	236 945	...	272 819	244 724	261 660	4	21
257 084,A	2	10	550	3	25	236 947	...	272 817	244 720	261 661	4	21
257 085,A	2	10	220	2	25	236 942	...	272 814	244 694	261 659	4	21
257 086,A	2	10	440	2	25	236 944	...	272 813	244 715	261 660	4	21
257 087,A	2	10	550	2	25	236 946	...	284 405	244 714	261 661	4	21
262 462	2	15	550	3	60	236 953	...	▲	...	261 659	4	21
262 463,A	3	15	550	3	25	236 959	...	▲	...	261 661	4	21
262 464	2	15	550	2	60	236 952	...	▲	...	261 659	4	21
262 465	3	15	550	2	25	236 958	...	▲	...	261 661	4	21
262 607,A	10	30 to 50	2200	3	60	246 004	246 062	275 484	793 707	261 656	6	23
262 608,A	11	30 to 50	2200	3	25	246 005	246 063	275 484	793 707	261 657	6	23
262 609,A	10	30 to 50	2200	2	60	246 004	246 062	275 485	262 578	261 656	6	23
262 610,A	11	30 to 50	2200	2	25	246 005	246 063	275 485	262 578	261 657	6	23
264 152,A	1	5.7 1/2	220	3	50	286 074	...	▲	...	244 703	2	17
264 153,A	1	10	220	3	50	286 074	...	▲	...	244 703	2	17
264 154	2	15	220	3	50	286 070	...	▲	...	261 657	4	21
264 155	2	20 to 30	220	3	50	286 070	...	▲	...	261 657	4	21
264 156,A	10	30 to 50	2200	3	50	286 065	277 144	275 484	793 707	272 528	6	23
264 157,A	11	60 to 100	2200	3	50	286 068	277 144	275 501	262 577	272 528	6	23
264 158,A	12	125 to 200	2200	3	50	286 067	277 144	275 516	244 779	272 528	6	23
264 162	1	5 to 10	550	3	50	286 070	...	▲	...	274 998	2	17
264 164	2	15 to 20	550	3	50	286 071	...	▲	...	261 659	4	21
264 165	2	25	550	3	50	286 071	...	▲	...	261 659	4	21
264 167	3	30 to 40	550	3	50	286 073	...	▲	...	261 659	4	21
264 168	3	50	550	3	50	286 073	...	▲	...	261 659	4	21
264 169,A	2	5.7 1/2	220	3	50	286 070	...	272 819	244 724	261 657	4	21
264 171,A	2	10 to 15	220	3	50	286 070	...	272 818	244 784	261 657	4	21
264 172,A	2	20 to 25	220	3	50	286 070	...	272 815	244 693	261 657	4	21
264 173,A,B	3	30 to 50	220	3	50	286 072	...	272 822	244 797	261 657	4	21
264 174,A	5	60 to 100	220	3	50	286 068	...	280 144	273 945	261 657	5	21
264 181,A	2	5.7 1/2	550	3	50	286 071	...	272 821	244 695	261 659	4	21
264 183,A	2	10 to 15	550	3	50	286 071	...	272 817	244 720	261 659	4	21
264 184,A	2	20 to 25	550	3	50	286 071	...	272 814	244 694	261 659	4	21
264 185,A,B	3	30 to 50	550	3	50	286 073	...	272 824	244 792	261 659	4	21
264 186,A	4	60 to 100	550	3	50	286 075	...	273 212	244 791	261 659	4	21

▲ these starters use an obsolete fuse panel which should be replaced by a modern overload relay panel. Negotiate with the nearest sales office of the company.

starter characteristics

style number of variable parts

for common parts

style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no. page no.	
						one used	one used	one used	two used	one used		
271 429	4	40 to 50	220	3	25	236 966	.....	▲	.....	261 659	4	21
271 430	4	40 to 50	440	3	25	236 967	.....	▲	.....	261 660	4	21
271 431	4	40	550	3	25	236 968	.....	▲	.....	261 661	4	21
271 432	4	50	550	3	25	236 968	.....	▲	.....	261 661	4	21
271 433	4	40 to 50	220	2	25	236 966	.....	▲	.....	261 659	4	21
271 434	4	40 to 50	440	2	25	236 967	.....	▲	.....	261 660	4	21
271 435	4	40	550	2	25	236 968	.....	▲	.....	261 661	4	21
271 436	4	50	550	2	25	236 968	.....	▲	.....	261 661	4	21
271 450	3	40 to 50	220	3	50	286 072	.....	▲	.....	261 657	4	21
279 218	1	5 to 10	440	3	50	236 941	.....	▲	.....	243 164	2	17
279 219	2	15	440	3	50	236 953	.....	▲	.....	261 659	4	21
279 220	2	20 to 25	440	3	50	236 953	.....	▲	.....	261 659	4	21
279 221	3	30	440	3	50	236 965	.....	▲	.....	261 659	4	21
279 222	3	50	440	3	50	236 965	.....	▲	.....	261 659	4	21
279 223,A	2	5,7½	440	3	50	236 953	.....	272 821	244 695	261 659	4	21
279 224,A	2	10	440	3	50	236 953	.....	272 817	244 720	261 659	4	21
279 225,A	2	15	440	3	50	236 953	.....	272 817	244 720	261 659	4	21
279 226,A	2	20 to 25	440	3	50	236 953	.....	272 814	244 694	261 659	4	21
279 227,A	3	30 to 50	440	3	50	236 965	.....	272 824	244 792	261 659	4	21
279 228,A	4	60 to 100	440	3	50	236 971	.....	273 212	244 791	261 659	4	21
280 408	1	5,7½	220	3	60	236 937	.....	288 608	244 724	244 703	2	17
280 409	1	10	220	3	60	236 937	.....	288 609	244 784	244 703	2	17
280 410	1	5,7½	440	3	60	236 939	.....	288 610	258 717	243 164	2	17
280 411	1	10	440	3	60	236 939	.....	288 608	244 724	243 164	2	17
280 412	1	5,7½	550	3	60	236 941	.....	288 611	244 695	243 164	2	17
280 413	1	10	550	3	60	236 941	.....	288 612	244 720	243 164	2	17
280 414	1	5,7½	220	3	60	236 936	.....	288 613	244 715	244 703	2	17
280 415	1	10	220	3	60	236 936	.....	288 614	244 694	244 703	2	17
280 416	1	5,7½	440	3	60	236 938	.....	288 611	244 695	243 164	2	17
280 417	1	10	440	2	60	236 938	.....	288 613	244 715	243 164	2	17
280 418	1	5,7½	550	2	60	236 940	.....	288 615	258 718	243 164	2	17
280 419	1	10	550	2	60	236 940	.....	288 616	244 714	243 164	2	17
286 365	5	125 to 200	440	3	50	236 979	.....	280 145	244 782	261 659	5	21
290 468,A	1	5,7½	220	3	60	287 400	.....	288 608	244 724	244 703	2	17
290 469,A	1	10	220	3	60	287 400	.....	406 300	244 793	244 703	2	17
290 470,A	2	15	220	3	60	293 483	.....	272 824	244 792	261 657	4	21
290 471	2	20 to 30	220	3	60	236 949	.....	272 815	244 693	261 657	4	21
290 472	3	35 to 50	220	3	60	236 951	.....	272 822	244 797	261 657	4	21
290 473	5	60 to 100	220	3	60	236 959	.....	280 144	273 945	261 657	5	21
290 474,A	1	5,7½	440	3	60	287 402	.....	288 610	258 717	243 164	2	17
290 475,A	1	10	440	3	60	287 402	.....	288 616	244 714	243 164	2	17
290 476,A	2	15	440	3	60	236 953	.....	272 819	244 724	261 658	4	21
290 477	2	20 to 30	440	3	60	236 951	.....	272 818	244 784	261 658	4	21
290 478	3	35 to 50	440	3	60	236 953	.....	272 823	244 798	261 658	4	21
290 479	4	60 to 100	440	3	60	236 970	.....	273 215	244 797	261 658	4	21
290 480	5	125 to 200	440	3	60	236 978	.....	280 144	273 945	261 658	5	21
290 481,A	1	5,7½	550	3	60	287 404	.....	288 610	258 717	243 164	2	17
290 482,A	1	10	550	3	60	287 404	.....	406 301	275 703	243 164	2	17
290 483,A	2	15	550	3	60	236 953	.....	272 817	244 720	261 659	4	21
290 484	2	20 to 30	550	3	60	236 953	.....	272 814	244 694	261 659	4	21
290 485	3	35 to 50	550	3	60	236 965	.....	272 824	244 792	261 659	4	21
290 486	4	60 to 100	550	3	60	236 971	.....	273 212	244 791	261 659	4	21
290 487	5	125 to 200	550	3	60	236 979	.....	280 145	244 782	261 659	5	21
290 488	10	30 to 50	2200	3	60	246 004	246 062	275 484	793 707	261 656	6	23
290 489	11	60 to 100	2200	3	60	236 972	246 062	275 501	262 577	261 656	6	23
290 490	12	125 to 200	2200	3	60	236 980	246 062	275 516	244 779	261 656	6	23
290 491,A	1	5,7½	220	2	60	287 399	.....	288 608	244 724	244 703	2	17
290 492,A	1	10	220	2	60	287 399	.....	406 302	275 704	244 703	2	17
290 493,A	2	15	220	2	60	293 494	.....	272 818	244 784	261 657	4	21
290 494	2	20 to 30	220	2	60	236 948	.....	272 816	244 789	261 657	4	21
290 495	3	35 to 60	220	2	60	236 960	.....	272 825	244 791	261 657	4	21
290 496	5	60 to 100	220	2	60	236 969	.....	280 145	244 782	261 657	5	21
290 497,A	1	5,7½	440	2	60	287 401	.....	288 610	258 717	243 164	2	17
290 498,A	1	10	440	2	60	287 401	.....	406 301	275 703	243 164	2	17
290 499,A	2	15	440	2	60	236 952	.....	272 819	244 724	261 658	4	21
290 500	2	20 to 30	440	2	60	236 950	.....	272 814	244 694	261 658	4	21
290 501	3	35 to 50	440	2	60	236 962	.....	272 824	244 792	261 658	4	21
290 502	4	60 to 100	440	2	60	236 970	.....	273 212	244 791	261 658	4	21
290 503	5	125 to 200	440	2	60	236 978	.....	280 145	244 782	261 658	5	21
290 504,A	1	5,7½	550	2	60	287 403	.....	288 611	244 695	243 164	2	17
290 505,A	1	10	550	2	60	287 403	.....	288 610	258 717	243 164	2	17
290 506,A	2	15	550	2	60	236 952	.....	284 405	244 714	261 659	4	21
290 507	2	20 to 30	550	2	60	236 952	.....	284 403	244 793	261 659	4	21
290 508	3	35 to 50	550	2	60	236 964	.....	272 818	244 784	261 659	4	21
290 509	4	60 to 100	550	2	60	236 971	.....	273 213	244 783	261 659	4	21
290 510	5	125 to 200	550	2	60	236 979	.....	280 148	244 797	261 659	5	21
290 511	10	30 to 50	2200	2	60	246 004	246 062	275 485	262 578	261 656	6	23
290 512	11	60 to 100	2200	2	60	236 972	246 062	275 502	244 753	261 656	6	23
290 513	12	125 to 200	2200	2	60	236 980	246 062	275 517	244 753	261 656	6	23
290 514,A	2	5,7½	220	3	50	286 070	.....	272 819	244 724	261 657	4	21

▲ these starters use an obsolete fuse panel which should be replaced by a modern overload relay panel. Negotiate with the nearest sales office of the company.

section one
autostarter variable parts

renewal
parts data
10-700A

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starter characteristics						style number of variable parts					for common parts	
style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no.	page no.
						one used	one used	one used	two used	one used		
290 515	2	10 to 15	220	3	50	286 070	.....	272 818	244 784	261 657	4	21
290 516	2	20 to 25	220	3	50	286 070	.....	272 815	244 693	261 657	4	21
290 517	3	30 to 50	220	3	50	286 072	.....	272 822	244 797	261 657	4	21
290 518	5	60 to 100	220	3	50	286 068	.....	280 144	273 945	261 657	5	21
290 519,A	2	5, 7½	440	3	50	236 953	.....	272 820	258 717	261 659	4	21
290 520,A	2	10	440	3	50	236 953	.....	284 405	244 714	261 659	4	21
290 521,A	2	15	440	3	50	236 953	.....	272 819	244 724	261 659	4	21
290 522	2	20 to 25	440	3	50	236 953	.....	272 814	244 694	261 659	4	21
290 523	3	30 to 50	440	3	50	236 955	.....	272 824	244 792	261 659	4	21
290 524	4	60 to 100	440	3	50	236 971	.....	273 212	244 791	261 659	4	21
290 525,A	2	5, 7½	550	3	50	286 071	.....	272 820	258 717	261 659	4	21
290 526	2	10 to 15	550	3	50	286 071	.....	272 817	244 720	261 659	4	21
290 527	2	20 to 25	550	3	50	286 071	.....	272 814	244 694	261 659	4	21
290 528	3	30 to 50	550	3	50	286 073	.....	272 824	244 792	261 659	4	21
290 529	4	60 to 100	550	3	50	286 075	.....	273 212	244 791	261 659	4	21
290 530	10	30 to 50	2200	3	50	286 065	277 144	275 494	793 707	272 528	6	23
290 531	11	60 to 100	2200	3	50	286 066	277 144	275 501	262 577	272 528	6	23
290 532	12	125 to 200	2200	3	50	286 067	277 144	275 516	244 779	272 528	6	23
290 533,A	2	5, 7½	220	3	25	236 943	.....	272 819	244 724	261 659	4	21
290 534,A	2	10	220	3	25	236 943	.....	284 403	244 793	261 659	4	21
290 535,A	3	15	220	3	25	236 955	.....	272 824	244 792	261 659	4	21
290 536	3	20 to 30	220	3	25	236 955	.....	272 815	244 693	261 659	4	21
290 537	4	35 to 50	220	3	25	236 958	.....	273 215	244 797	261 659	4	21
290 538	5	60 to 100	220	3	25	236 973	.....	280 144	273 945	261 659	5	21
290 539,A	2	5, 7½	440	3	25	236 948	.....	272 820	258 717	261 660	4	21
290 540,A	2	10	440	3	25	236 945	.....	284 405	244 714	261 660	4	21
290 541,A	3	15	440	3	25	236 957	.....	272 819	244 724	261 660	4	21
290 542	3	20 to 30	440	3	25	236 957	.....	272 818	244 784	261 660	4	21
290 543	4	35 to 50	440	3	25	236 967	.....	273 214	244 798	261 660	4	21
290 544	5	60 to 100	440	3	25	236 974	.....	280 146	244 693	261 660	5	21
290 545,A	2	5, 7½	550	3	25	236 947	.....	272 820	258 717	261 661	4	21
290 546,A	2	10	550	3	25	236 947	.....	406 308	275 703	261 661	4	21
290 547,A	3	15	550	3	25	236 958	.....	272 817	244 720	261 661	4	21
290 548	3	20 to 30	550	3	25	236 959	.....	272 814	244 694	261 661	4	21
290 549	4	35 to 50	550	3	25	236 968	.....	273 211	244 792	261 661	4	21
290 550	5	60 to 100	550	3	25	236 975	.....	280 147	244 798	261 661	5	21
290 551	11	30 to 50	2200	3	25	246 065	246 063	275 494	793 707	261 657	6	23
290 552	12	60 to 100	2200	3	25	236 976	246 063	275 501	262 577	261 657	6	23
290 553,A	2	5, 7½	220	3	25	236 942	.....	272 819	244 724	261 659	4	21
290 554,A	2	10	220	3	25	236 942	.....	406 306	275 704	261 659	4	21
290 555,A	3	15	220	2	25	236 954	.....	272 818	244 784	261 659	4	21
290 556	3	20 to 30	220	2	25	236 954	.....	272 816	244 789	261 659	4	21
290 557	4	35 to 50	220	2	25	236 966	.....	273 212	244 791	261 659	4	21
290 558	5	60 to 100	220	2	25	236 973	.....	280 145	244 782	261 659	5	21
290 559,A	2	5, 7½	440	2	25	236 944	.....	272 820	258 717	261 660	4	21
290 560,A	2	10	440	2	25	236 944	.....	406 308	275 703	261 660	4	21
290 561,A	3	15	440	2	25	236 956	.....	272 819	244 724	261 660	4	21
290 562	3	20 to 30	440	2	25	236 958	.....	272 814	244 694	261 660	4	21
290 563	4	35 to 50	440	2	25	236 967	.....	273 211	244 792	261 660	4	21
290 564	5	60 to 100	440	2	25	236 974	.....	280 147	244 798	261 660	5	21
290 565,A	2	5, 7½	550	2	25	236 946	.....	272 821	244 695	261 661	4	21
290 566,A	2	10	550	2	25	236 946	.....	272 820	258 717	261 661	4	21
290 567,A	3	15	550	2	25	236 958	.....	284 405	244 714	261 661	4	21
290 568	3	20 to 30	550	2	25	236 958	.....	284 403	244 793	261 661	4	21
290 569	4	35 to 50	550	2	25	236 968	.....	273 210	244 784	261 661	4	21
290 570	5	60 to 100	550	2	25	236 975	.....	280 149	244 798	261 661	5	21
290 571	11	30 to 50	2200	2	25	246 065	246 063	275 495	262 578	261 657	6	23
290 572	12	60 to 100	2200	2	25	236 976	246 063	275 502	244 753	261 657	6	23
294 440	5	125 to 200	440	3	50	236 979	.....	280 145	244 782	261 659	5	21
294 498	2	5, 7½	220	3	60	293 493	.....	272 819	244 724	261 657	4	21
294 499	2	5, 7½	440	3	60	236 953	.....	272 820	258 717	261 658	4	21
294 500	2	5, 7½	550	3	60	236 953	.....	272 821	244 695	261 659	4	21
294 501	2	5, 7½	220	2	60	293 494	.....	272 813	244 715	261 657	4	21
294 502	2	5, 7½	440	2	60	236 952	.....	272 821	244 695	261 658	4	21
294 503	2	5, 7½	550	2	60	236 952	.....	284 404	258 718	261 659	4	21
294 504	2	10	220	3	60	293 493	.....	272 818	244 784	261 657	4	21
294 505	2	10	440	3	60	236 953	.....	272 819	244 724	261 658	4	21
294 506	2	10	550	3	60	236 953	.....	272 817	244 720	261 659	4	21
294 507	2	10	220	2	60	293 494	.....	272 814	244 694	261 657	4	21
294 508	2	10	440	2	60	236 952	.....	272 813	244 715	261 658	4	21
294 509	2	10	550	2	60	236 952	.....	284 405	244 714	261 659	4	21
381 950	3	20 to 25	220	2	25	236 954	.....	272 816	244 789	261 659	4	21
381 951,A	3	39	220	2	25	236 954	.....	272 815	244 693	261 659	4	21
381 952	5	60 to 75	220	2	25	236 973	.....	280 145	244 782	261 659	5	21
381 953,A	5	100	220	2	25	236 973	.....	280 144	273 945	261 659	5	21
381 954	3	20 to 25	440	2	25	236 956	.....	272 814	244 694	261 660	4	21
381 955,A	3	30	440	2	25	236 956	.....	272 818	244 784	261 660	4	21
381 956	5	60 to 75	440	2	25	236 974	.....	280 147	244 798	261 660	5	21
381 957,A	5	100	440	2	25	236 974	.....	406 318	244 783	261 660	5	21
381 958	3	20 to 25	550	2	25	236 958	.....	284 403	244 793	261 661	4	21

▲ these starters use an obsolete fuse panel which should be replaced by a modern overload relay panel. Negotiate with the nearest sales office of the company.

starter characteristics

style number of variable parts

for
common
parts

style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no. page no.	
						one used	one used	one used	two used	one used		
381 959,A	3	30	550	2	25	236 958	...	284 403	244 793	261 661	4	21
381 960	5	60 to 75	550	2	25	236 975	...	280 149	244 798	261 681	5	21
381 961,A	5	100	550	2	25	236 975	...	280 147	244 798	261 681	5	21
381 962	11	15 to 30	2200	2	25	246 005	246 063	275 485	262 578	261 657	6	23
381 963	11	40 to 50	2200	2	25	246 005	246 063	275 485	262 578	261 657	6	23
381 964	12	60 to 75	2200	2	25	236 976	246 063	275 502	244 753	261 657	6	23
381 965 to C	12	100	2200	2	25	236 976	246 063	408 325	405 063	261 657	6	23
381 966	5	60 to 75	220	3	60	236 969	...	280 144	273 945	261 657	5	21
381 967,A	5	100	220	3	60	236 969	...	408 315	244 790	261 657	5	21
381 968	5	125 to 150	440	3	60	236 978	...	280 144	273 945	261 658	5	21
381 969,A	5	200	440	3	60	236 978	...	408 315	244 790	261 658	5	21
381 970	5	125 to 150	550	3	60	236 979	...	280 145	244 782	261 659	5	21
381 971,A	5	200	500	3	60	236 979	...	280 145	244 782	261 659	5	21
381 972	10	15 to 30	2200	3	60	246 004	246 062	275 484	793 707	261 656	6	23
381 973	10	40 to 50	2200	3	60	246 004	246 062	275 484	793 707	261 656	6	23
381 974	5	60 to 75	220	3	50	286 068	...	280 144	273 945	261 657	5	21
381 975,A	5	100	220	3	50	286 068	...	408 315	244 790	261 657	5	21
381 976	5	125 to 150	440	3	50	236 979	...	280 145	244 782	261 659	5	21
381 977,A	5	200	440	3	50	236 979	...	408 315	244 790	261 659	5	21
381 978	10	15 to 30	2200	3	50	286 068	277 144	275 484	793 707	272 528	6	23
381 979	10	40 to 50	2200	3	50	286 065	277 144	275 484	793 707	272 528	6	23
381 980	5	60 to 75	220	2	60	236 969	...	280 145	244 782	261 657	5	21
381 981,A	5	100	220	2	60	236 969	...	280 144	273 945	261 657	5	21
381 982	5	125 to 150	440	2	60	236 978	...	280 145	244 782	261 658	5	21
381 983	5	200	440	2	60	236 978	...	280 144	273 945	261 658	5	21
381 984	5	125 to 150	550	2	60	236 979	...	280 148	244 797	261 659	5	21
381 985,A	5	200	550	2	60	236 979	...	408 316	273 946	261 659	5	21
381 986	10	15 to 30	2200	2	60	246 004	246 062	275 485	262 578	261 656	6	23
381 987	10	40 to 50	2200	2	60	246 004	246 062	275 485	262 578	261 656	6	23
382 940	3	20 to 25	220	3	25	236 955	...	272 815	244 693	261 659	4	21
382 941,A	3	30	220	3	25	236 955	...	408 303	244 783	261 659	4	21
382 942	5	60 to 75	220	3	25	236 973	...	280 144	273 945	261 659	5	21
382 943,A	5	100	220	3	25	236 973	...	408 315	244 790	261 659	5	21
382 944	3	20 to 25	440	3	25	236 957	...	272 818	244 784	261 660	4	21
382 945,A	3	30	440	3	25	236 957	...	272 824	244 792	261 660	4	21
382 946	5	60 to 75	440	3	25	236 974	...	280 146	244 693	261 660	5	21
382 947,A	5	100	440	3	25	236 974	...	408 317	244 797	261 660	5	21
382 948	3	20 to 25	550	3	25	236 959	...	272 814	244 694	261 661	4	21
382 949,A	3	30	550	3	25	236 959	...	272 814	244 694	261 661	4	21
382 950	5	60 to 75	550	3	25	236 975	...	280 147	244 796	261 661	5	21
382 951,A	5	100	550	3	25	236 975	...	408 320	244 693	261 661	5	21
382 952	11	15 to 30	2200	3	25	246 005	246 063	275 484	793 707	261 657	6	23
382 953	11	40 to 50	2200	3	25	246 005	246 063	275 484	793 707	261 657	6	23
382 954	12	60 to 75	2200	3	25	236 976	246 063	275 501	262 577	261 657	6	23
382 955 to C	12	100	2200	3	25	236 976	246 063	408 325	405 063	261 657	6	23
382 956,A	3	30	220	3	50	286 072	...	408 303	244 783	261 657	4	21
382 957	3	40 to 50	220	3	50	286 072	...	272 822	244 797	261 657	4	21
382 958,A	3	30	440	3	50	236 965	...	272 824	244 792	261 659	4	21
382 959	3	40 to 50	440	3	50	236 965	...	272 824	244 792	261 659	4	21
382 960,A	3	30	550	3	50	286 073	...	272 814	244 694	261 659	4	21
382 961	3	40 to 50	550	3	50	286 073	...	272 824	244 792	261 659	4	21
402 459,A	2	30	220	3	60	236 949	...	408 303	244 783	261 657	4	21
402 461,A	2	30	440	3	60	236 951	...	272 824	244 792	261 658	4	21
402 463,A,B	4	100	440	3	60	236 970	...	408 309	273 946	261 658	4	21
402 465,A	2	30	550	3	60	236 953	...	272 814	244 694	261 659	4	21
402 467,A,B	4	100	550	3	60	236 971	...	408 311	273 977	261 659	4	21
402 469,A,B	11	100	2200	3	60	236 972	246 062	408 325	405 063	261 656	6	23
402 471,A,B	12	200	2200	3	60	236 980	246 062	408 326	244 752	261 656	6	23
402 473,A	2	30	220	2	60	236 948	...	272 815	244 693	261 657	4	21
402 475,A	2	30	440	2	60	236 950	...	272 818	244 784	261 658	4	21
402 477,A,B	4	100	440	2	60	236 970	...	408 313	273 947	261 658	4	21
402 479,A	2	30	550	2	60	236 952	...	284 403	244 793	261 659	4	21
402 481,A,B	4	100	550	2	60	236 971	...	273 212	244 791	261 659	4	21
402 483 to C	11	100	2200	2	60	236 972	246 062	408 325	405 063	261 656	6	23
402 485 to C	12	200	2200	2	60	236 980	246 062	408 326	244 752	261 656	6	23
402 487,A,B	4	100	440	3	50	236 971	...	408 309	273 946	261 659	4	21
402 489,A	4	100	550	3	50	286 075	...	408 311	273 977	261 659	4	21
402 491,A,B	11	100	2200	3	50	286 066	277 144	408 325	405 063	272 528	6	23
402 493,A,B	12	200	2200	3	50	286 067	277 144	408 326	244 752	272 528	6	23
402 702	2	20	220	3	60	236 949	...	272 823	244 798	261 657	4	21
402 703	2	25	220	3	60	236 949	...	272 816	244 789	261 657	4	21
402 704	3	40	220	3	60	236 961	...	408 304	273 947	261 657	4	21
402 705	3	50	220	3	60	236 961	...	408 305	273 946	261 657	4	21
402 706	5	60	220	3	60	236 969	...	408 316	273 946	261 657	5	21
402 707	5	75	220	3	60	236 969	...	280 145	244 782	261 657	5	21
402 709	2	20	440	3	60	236 951	...	284 403	244 793	261 658	4	21
402 710	2	25	440	3	60	236 951	...	272 814	244 694	261 658	4	21
402 711	3	40	440	3	60	236 963	...	272 823	244 798	261 658	4	21
402 712	3	50	440	3	60	236 963	...	272 815	244 693	261 658	4	21
402 713,A	4	60	440	3	60	236 970	...	273 213	244 783	261 658	4	21

▲ these starters use an obsolete fuse panel which should be replaced by a modern overload relay panel. Negotiate with the nearest sales office of the company.

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starter characteristics

style number of variable parts

for
common
parts

style number	frame no.	horsepower	volts	phase	cycles	auto transformer one used	voltage transformer one used	relay with panel one used	relay coil or heater two used	low voltage release coil one used
402 714,A	4	75	440	3	60	236 970	...	273 218	244 797	261 658
402 715	5	125	440	3	60	236 978	...	406 316	273 946	261 658
402 716	5	150	440	3	60	236 978	...	280 145	244 782	261 658
402 717	2	20	550	3	60	236 953	...	406 306	275 704	261 659
402 718	2	25	550	3	60	236 953	...	406 303	275 704	261 659
402 719	3	40	550	3	60	236 965	...	272 824	244 792	261 659
402 720	3	50	550	3	60	236 965	...	272 823	244 798	261 659
402 721,A	4	60	550	3	60	236 971	...	406 310	244 789	261 659
402 722,A	4	75	550	3	60	236 971	...	273 213	244 783	261 659
402 723	5	125	550	3	60	236 979	...	406 317	244 797	261 659
402 724	5	150	550	3	60	236 979	...	406 316	273 946	261 659
402 725,A,B	10	25	2200	3	60	246 004	246 062	406 323	276 722	261 656
402 726 to C	10	30	2200	3	60	246 004	246 062	859 978	856 014	261 656
402 727,A,B	10	40	2200	3	60	246 004	246 062	859 977	856 015	261 656
402 728,A,B	10	50	2200	3	60	246 004	246 062	406 324	276 721	261 656
402 729,A,B	11	60	2200	3	60	236 972	246 062	859 984	262 578	261 656
402 730,A,B	11	75	2200	3	60	236 972	246 062	275 501	262 577	261 656
402 731,A,B	12	125	2200	3	60	236 980	246 062	275 516	244 779	261 656
402 732,A,B	12	150	2200	3	60	236 980	246 062	859 985	406 064	261 656
402 733	2	20	220	2	60	236 948	...	272 824	244 792	261 657
402 734	2	25	220	2	60	236 948	...	272 823	244 798	261 657
402 735	3	40	220	2	60	236 960	...	272 822	244 797	261 657
402 736	3	50	220	2	60	236 960	...	406 304	273 947	261 657
402 737	5	60	220	2	60	236 969	...	406 317	244 797	261 657
402 738	5	75	220	2	60	236 969	...	406 316	273 946	261 657
402 739	2	20	440	2	60	236 950	...	406 306	275 704	261 658
402 740	2	25	440	2	60	236 950	...	284 403	244 793	261 658
402 741	3	40	440	2	60	236 962	...	272 824	244 792	261 658
402 742	3	50	440	2	60	236 962	...	272 823	244 798	261 658
402 743,A	4	60	440	2	60	236 970	...	406 312	244 693	261 658
402 744,A	4	75	440	2	60	236 970	...	273 212	244 791	261 658
402 745	5	125	440	2	60	236 978	...	280 148	244 797	261 658
402 746	5	150	440	2	60	236 978	...	406 316	273 946	261 658
402 747	2	20	550	2	60	236 952	...	272 819	244 724	261 659
402 748	2	25	550	2	60	236 952	...	406 306	275 704	261 659
402 749	3	40	550	2	60	236 964	...	272 818	244 784	261 659
402 750	3	50	550	2	60	236 964	...	272 824	244 792	261 659
402 751	4	60	550	2	60	236 971	...	273 214	244 796	261 659
402 752,A	4	75	550	2	60	236 971	...	406 312	244 791	261 659
402 753	5	125	550	2	60	236 979	...	406 318	244 783	261 659
402 754	5	150	550	2	60	236 979	...	280 144	273 945	261 659
402 755,A,B	10	25	2200	2	60	246 004	246 062	406 323	276 722	261 656
402 756,A,B	10	30	2200	2	60	246 004	246 062	406 323	276 722	261 656
402 757,A,B	10	40	2200	2	60	246 004	246 062	275 484	793 707	261 656
402 758,A,B	10	50	2200	2	60	246 004	246 062	859 977	856 015	261 656
402 759,A,B	11	60	2200	2	60	236 972	246 062	406 324	276 721	261 656
402 760,A,B	11	75	2200	2	60	236 972	246 062	859 984	262 578	261 656
402 761,A,B	12	125	2200	2	60	236 980	246 062	275 517	244 753	261 656
402 762,A,B	12	150	2200	2	60	236 980	246 062	275 516	244 779	261 656
402 763	2	10	220	3	50	286 070	...	284 403	244 793	261 657
402 764	2	15	220	3	50	286 070	...	272 824	244 792	261 657
402 765	2	20	220	3	50	286 070	...	272 823	244 798	261 657
402 766	2	25	220	3	50	286 070	...	272 816	244 789	261 657
402 767	3	40	220	3	50	286 072	...	406 304	273 947	261 657
402 768	3	50	220	3	50	286 072	...	406 305	273 946	261 657
402 769	5	60	220	3	50	286 068	...	406 316	273 946	261 657
402 770	5	75	220	3	50	286 068	...	280 145	244 782	261 657
402 771	2	20	440	3	50	236 953	...	284 403	244 793	261 659
402 772	2	25	440	3	50	236 953	...	272 814	244 694	261 659
402 773	3	40	440	3	50	236 965	...	272 823	244 798	261 659
402 774	3	50	440	3	50	236 965	...	272 815	244 693	261 659
402 775,A	4	60	440	3	50	236 971	...	273 213	244 783	261 659
402 776	4	75	440	3	50	236 971	...	273 215	244 797	261 659
402 779	2	20	550	3	50	286 071	...	406 306	275 704	261 659
402 780	2	25	550	3	50	286 071	...	406 306	275 704	261 659
402 781	3	40	550	3	50	286 073	...	272 824	244 792	261 659
402 782	3	50	550	3	50	286 073	...	272 823	244 798	261 659
402 783,A	4	60	550	3	50	286 075	...	406 310	244 789	261 659
402 784,A	4	75	550	3	50	286 075	...	273 213	244 783	261 659
402 785,A,B	10	25	2200	3	50	286 065	277 144	406 323	276 722	272 528
402 786,A,B	10	30	2200	3	50	286 065	277 144	859 978	856 014	272 528
402 787,A,B	10	40	2200	3	50	286 065	277 144	859 977	856 015	272 528
402 788,A,B	10	50	2200	3	50	286 065	277 144	406 324	276 721	272 528
402 789,A,B	11	60	2200	3	50	286 066	277 144	859 984	262 578	272 528
402 790,A,B	11	75	2200	3	50	286 066	277 144	275 501	262 577	272 528
402 791,A,B	12	125	2200	3	50	286 067	277 144	275 516	244 779	272 528
402 792,A,B	12	150	2200	3	50	286 067	277 144	859 985	406 064	272 528
402 793	3	20	220	3	25	236 955	...	272 823	244 798	261 659
402 794	3	25	220	3	25	236 955	...	272 816	244 789	261 659
402 795,A	4	40	220	3	25	236 966	...	406 313	273 947	261 659

starter characteristics

style number of variable parts

for
common
parts

style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no. page no.	
						one used	one used	one used	two used	one used		
402 796,A	4	50	220	3	25	236 966	.....	406 309	273 946	261 659	4	21
402 873	5	60	220	3	25	236 973	.....	406 316	273 946	261 659	5	21
402 874	5	75	220	3	25	236 973	.....	280 145	244 782	261 659	5	21
402 875	3	20	440	3	25	236 987	.....	284 403	244 793	261 660	4	21
402 876	3	25	440	3	25	236 987	.....	272 814	244 694	261 660	4	21
402 877,A	4	40	440	3	25	236 967	.....	273 214	244 798	261 660	4	21
402 878,A	4	50	440	3	25	236 967	.....	406 312	244 693	261 660	4	21
402 879	5	60	440	3	25	236 974	.....	280 149	244 798	261 660	5	21
402 880	5	75	440	3	25	236 974	.....	280 146	244 693	261 660	5	21
402 881	3	20	550	3	25	236 959	.....	406 306	275 704	261 661	4	21
402 882	3	25	550	3	25	236 959	.....	406 306	275 704	261 661	4	21
402 883	4	40	550	3	25	236 968	.....	273 211	244 792	261 661	4	21
402 884,A	4	50	550	3	25	236 968	.....	273 214	244 798	261 661	5	21
402 885	4	60	550	3	25	236 975	.....	406 319	244 792	261 661	5	21
402 886	5	75	550	3	25	236 975	.....	280 149	244 798	261 661	5	21
402 887 to C	11	25	2200	3	25	246 005	246 063	406 323	276 722	261 657	6	23
402 888 to C	11	30	2200	3	25	246 005	246 063	859 978	856 014	261 657	6	23
402 889 to C	11	40	2200	3	25	246 005	246 063	859 977	856 015	261 657	6	23
402 890 to C	11	50	2200	3	25	246 005	246 063	406 324	276 721	261 657	6	23
402 891 to C	12	60	2200	3	25	236 976	246 063	859 984	262 578	261 657	6	23
402 892,A,B	12	75	2200	3	25	236 976	246 063	275 501	262 577	261 657	6	23
402 893	3	20	220	2	25	236 954	.....	272 824	244 792	261 659	4	21
402 894	3	25	220	2	25	236 954	.....	272 823	244 798	261 659	4	21
402 895,A	4	40	220	2	25	236 966	.....	273 215	244 797	261 659	4	21
402 896	4	50	220	2	25	236 966	.....	406 313	273 947	261 659	4	21
402 897	5	60	220	2	25	236 973	.....	406 317	244 797	261 659	5	21
402 898	5	75	220	2	25	236 973	.....	406 316	273 946	261 659	5	21
402 899	3	20	440	2	25	236 956	.....	406 306	275 704	261 660	4	21
402 900	3	25	440	2	25	236 956	.....	284 403	244 793	261 660	4	21
402 901	4	40	440	2	25	236 967	.....	273 211	244 792	261 660	4	21
402 902	4	50	440	2	25	236 967	.....	273 214	244 798	261 660	4	21
402 903	5	60	440	2	25	236 974	.....	406 321	244 792	261 660	5	21
402 904	5	75	440	2	25	236 974	.....	280 147	244 798	261 660	5	21
402 905	3	20	550	2	25	236 958	.....	272 819	244 724	261 661	4	21
402 906	3	25	550	2	25	236 958	.....	406 306	275 704	261 661	4	21
402 907	4	40	550	2	25	236 968	.....	273 210	244 784	261 661	4	21
402 908	4	50	550	2	25	236 968	.....	273 211	244 792	261 661	4	21
402 909	5	60	550	2	25	236 975	.....	406 322	244 784	261 661	5	21
402 910	5	75	550	2	25	236 975	.....	406 321	244 792	261 661	5	21
402 911,A,B	11	25	2200	2	25	246 005	246 063	406 323	276 722	261 657	6	23
402 912,A,B	11	30	2200	2	25	246 005	246 063	275 484	793 707	261 657	6	23
402 913,A,B	11	40	2200	2	25	246 005	246 063	859 977	856 015	261 657	6	23
402 914,A,B	11	50	2200	2	25	246 005	246 063	406 324	276 721	261 657	6	23
402 915,A,B	12	60	2200	2	25	236 976	246 063	275 501	262 577	261 657	6	23
402 916,A,B	12	75	2200	2	25	236 976	246 063	275 501	262 577	261 657	6	23
402 917	2	10	550	3	50	286 071	.....	406 308	275 703	261 659	4	21
402 918	2	15	550	3	50	286 071	.....	272 817	244 720	261 659	4	21
402 919	5	125	440	3	50	236 979	.....	406 316	273 946	261 659	5	21
402 920	5	150	440	3	50	236 979	.....	280 145	244 782	261 659	5	21
478 592,A,B	5	60	220	3	60	236 969	.....	860 068	273 947	261 657	5	21
478 593,A,B	5	75	220	3	60	236 969	.....	280 145	244 782	261 657	5	21
478 594,A,B	5	100	220	3	60	236 969	.....	406 315	244 790	261 657	5	21
478 595,A,B	5	125	440	3	60	236 978	.....	860 068	273 947	261 658	5	21
478 596,A,B	5	150	440	3	60	236 978	.....	280 145	244 782	261 658	5	21
478 597,A,B	5	200	440	3	60	236 978	.....	406 315	244 790	261 658	5	21
478 598,A,B	5	125	550	3	60	236 979	.....	406 317	244 797	261 659	5	21
478 599,A,B	5	150	550	3	60	236 979	.....	860 068	273 947	261 659	5	21
478 600,A,B	5	200	550	3	60	236 979	.....	280 145	244 782	261 659	5	21
478 601,A,B	5	60	220	2	60	236 969	.....	406 317	244 797	261 657	5	21
478 602,A,B	5	75	220	2	60	236 969	.....	406 316	273 946	261 657	5	21
478 603,A,B	5	100	220	2	60	236 969	.....	280 144	273 945	261 657	5	21
478 604 to C	5	125	440	2	60	236 978	.....	280 148	244 797	261 658	5	21
478 605 to C	5	150	440	2	60	236 978	.....	861 676	273 947	261 658	5	21
478 606 to C	5	200	440	2	60	236 978	.....	861 677	244 782	261 658	5	21
478 607,A,B	5	60	220	3	50	286 068	.....	860 068	273 947	261 657	5	21
478 608,A,B	5	75	220	3	50	286 068	.....	280 145	244 782	261 657	5	21
478 609,A,B	5	100	220	3	50	286 068	.....	406 315	244 790	261 657	5	21
478 610,A,B	5	125	440	3	50	236 979	.....	860 068	273 947	261 659	5	21
478 611,A,B	5	150	440	3	50	236 979	.....	280 145	244 782	261 659	5	21
478 612,A,B	5	200	440	3	50	236 979	.....	406 315	244 790	261 659	5	21
478 613,A,B	5	60	220	3	25	236 973	.....	860 068	273 947	261 659	5	21
478 614,A,B	5	75	220	3	25	236 973	.....	280 145	244 782	261 659	5	21
478 615,A,B	5	100	220	3	25	236 973	.....	406 315	244 790	261 659	5	21
478 616,A,B	5	60	440	3	25	236 974	.....	280 149	244 798	261 660	5	21
478 617,A,B	5	75	440	3	25	236 974	.....	280 146	244 693	261 660	5	21
478 618,A,B	5	100	440	3	25	236 974	.....	406 317	244 797	261 660	5	21
478 618,A,B	5	60	550	3	25	236 975	.....	406 319	244 792	261 661	5	21
478 620,A,B	5	75	550	3	25	236 975	.....	280 149	244 798	261 661	5	21
478 621,A,B	5	100	550	3	25	236 975	.....	406 320	244 693	261 661	5	21
478 622,A,B	5	60	220	2	25	236 973	.....	406 317	244 797	261 659	5	21

section one
autostarter variable parts

renewal
parts data
10-700A
page 9

starter characteristics						style number of variable parts					for common parts	
style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no.	page no.
478 623,A,B	5	75	220	2	25	236 973	.....	406 316	273 946	261 659	5	21
478 624,A,B	5	100	220	2	25	236 973	.....	280 144	273 945	261 659	5	21
478 625,A,B	5	60	440	2	25	236 974	.....	406 321	244 792	261 660	5	21
478 626,A,B	5	75	440	2	25	236 974	.....	280 147	244 798	261 660	5	21
478 627,A,B	5	100	440	2	25	236 974	.....	406 318	244 783	261 660	5	21
478 628,A,B	5	60	550	2	25	236 975	.....	406 322	244 784	261 661	5	21
478 629,A,B	5	75	550	2	25	236 975	.....	406 321	244 792	261 661	5	21
478 630,A,B	5	100	550	2	25	236 975	.....	861 673	244 789	261 661	5	21
480 372 to C	5	125	550	2	60	236 979	.....	861 678	244 783	261 659	5	21
480 373 to C	5	150	550	2	60	236 979	.....	861 679	244 791	261 659	5	21
480 374 to C	5	200	550	2	60	236 979	.....	861 680	273 946	261 659	5	21
521 032 to C	1	5 to 10	220	3	60	287 400	.....	520 537	A	244 703	1	15
521 033 to C	1	5 to 10	440	3	60	287 402	.....	520 537	A	243 164	1	15
521 034 to C	1	5 to 10	550	3	60	287 404	.....	520 537	A	243 164	1	15
521 035 to C	1	5 to 10	220	2	60	287 399	.....	520 536	A	244 703	1	15
521 036 to C	1	5 to 10	440	2	60	287 401	.....	520 536	A	243 164	1	15
521 037 to C	1	5 to 10	550	2	60	287 403	.....	520 536	A	243 164	1	15
521 038 to C	2	15	220	3	60	293 493	.....	520 535	B	261 657	3	19
521 039 to C	2	20 to 25	220	3	60	236 949	.....	520 535	B	261 657	3	19
521 040 to C	2	30	220	3	60	236 949	.....	520 535	B	261 657	3	19
521 041 to C	2	15	440	3	60	236 953	.....	520 534	A	261 658	3	19
521 042 to C	2	20 to 25	440	3	60	236 951	.....	520 534	A	261 658	3	19
521 043 to C	2	30	440	3	60	236 951	.....	520 535	B	261 658	3	19
521 044 to C	2	15	550	3	60	236 953	.....	520 534	A	261 659	3	19
521 045 to C	2	20 to 25	550	3	60	236 953	.....	520 534	A	261 659	3	19
521 046 to C	2	30	550	3	60	236 953	.....	520 534	A	261 659	3	19
521 047 to C	2	15	220	2	60	293 494	.....	520 533	B	261 657	3	19
521 048 to C	2	20 to 25	220	2	60	236 948	.....	520 533	B	261 657	3	19
521 049 to C	2	30	220	2	60	236 948	.....	520 533	B	261 657	3	19
521 050 to C	2	15	440	2	60	236 952	.....	520 532	A	261 658	3	19
521 051 to C	2	20 to 25	440	2	60	236 950	.....	520 532	A	261 658	3	19
521 052 to C	2	30	440	2	60	236 950	.....	520 533	B	261 658	3	19
521 053 to C	2	15	550	2	60	236 952	.....	520 532	A	261 659	3	19
521 054 to C	2	20 to 25	550	2	60	236 952	.....	520 532	A	261 659	3	19
521 055 to C	2	30	550	2	60	236 952	.....	520 532	A	261 659	3	19
521 056 to C	2	5 to 10	220	3	50	236 951	.....	520 534	A	261 657	3	19
521 057 to C	2	15	220	3	50	286 070	.....	520 535	B	261 657	3	19
521 058 to C	2	20 to 25	220	3	50	286 070	.....	520 535	B	261 657	3	19
521 059 to C	2	5 to 10	440	3	50	471 867	.....	520 534	A	261 659	3	19
521 060 to C	2	15	440	3	50	236 953	.....	520 534	A	261 659	3	19
521 061 to C	2	20 to 25	440	3	50	236 953	.....	520 534	A	261 659	3	19
521 062 to C	2	5 to 10	550	3	50	286 071	.....	520 534	A	261 659	3	19
521 063 to C	2	15	550	3	50	286 071	.....	520 534	A	261 659	3	19
521 064 to C	2	20 to 25	550	3	50	286 071	.....	520 534	A	261 659	3	19
521 065 to C	2	5 to 10	220	3	25	236 943	.....	520 534	A	261 659	3	19
521 066 to C	2	5 to 10	440	3	25	236 945	.....	520 534	A	261 660	3	19
521 067 to C	2	5 to 10	550	3	25	236 947	.....	520 534	A	261 661	3	19
521 068 to C	2	5 to 10	220	2	25	236 942	.....	520 532	A	261 659	3	19
521 069 to C	2	5 to 10	440	2	25	236 944	.....	520 532	A	261 660	3	19
521 070 to C	2	5 to 10	550	2	25	236 946	.....	520 532	A	261 661	3	19
532 355	3	40 to 50	220	3	60	236 961	.....	970 343	B	261 657	3	19
532 356	3	40 to 50	440	3	60	236 963	.....	970 343	B	261 658	3	19
532 357	3	40 to 50	550	3	60	236 965	.....	970 343	B	261 659	3	19
532 358	3	40 to 50	220	2	60	236 960	.....	970 343	B	261 657	3	19
532 359	3	40 to 50	440	2	60	236 962	.....	970 343	B	261 658	3	19
532 360	3	40 to 50	550	2	60	236 964	.....	970 343	B	261 659	3	19
532 361	3	30	220	3	50	286 072	.....	970 343	B	261 657	3	19
532 362	3	40 to 50	220	3	50	286 072	.....	970 343	B	261 657	3	19
532 363	3	30	440	3	50	236 965	.....	970 343	B	261 659	3	19
532 364	3	40 to 50	440	3	50	236 965	.....	970 343	B	261 659	3	19
532 365	3	30	550	3	50	286 073	.....	970 342	A	261 659	3	19
532 366	3	40 to 50	550	3	50	286 073	.....	970 343	B	261 659	3	19
532 367	3	15	220	3	25	236 955	.....	970 343	B	261 659	3	19
532 368	3	20 to 25	220	3	25	236 955	.....	970 343	B	261 659	3	19
532 369	3	30	220	3	25	236 955	.....	970 343	B	261 659	3	19
532 370	3	15	440	3	25	236 957	.....	970 342	A	261 660	3	19
532 371	3	20 to 25	440	3	25	236 957	.....	970 342	A	261 660	3	19
532 372	3	30	440	3	25	236 957	.....	970 343	B	261 660	3	19
532 373	3	15	550	3	25	236 959	.....	970 342	A	261 661	3	19
532 374	3	20 to 25	550	3	25	236 959	.....	970 342	A	261 661	3	19
532 375	3	30	550	3	25	236 959	.....	970 342	A	261 661	3	19
532 376	3	15	220	2	25	236 954	.....	970 343	B	261 659	3	19
532 377	3	20 to 25	220	2	25	236 954	.....	970 343	B	261 659	3	19
532 378	3	30	220	2	25	236 954	.....	970 343	B	261 659	3	19
532 379	3	15	440	2	25	236 956	.....	970 342	A	261 660	3	19
532 380	3	20 to 25	440	2	25	236 956	.....	970 342	A	261 660	3	19
532 381	3	30	440	2	25	236 956	.....	970 343	B	261 660	3	19
532 382	3	15	550	2	25	236 958	.....	970 342	A	261 661	3	19
532 383	3	20 to 25	550	2	25	236 958	.....	970 342	A	261 661	3	19
532 384	3	30	550	2	25	236 958	.....	970 342	A	261 661	3	19

A—for application of heaters see page 12, table A.
B—for application of heaters see page 12, table B.

starter characteristics

style number of variable parts

for common parts

style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	for common parts	
						one used	one used	one used	two used	one used		
540 539	4	60 to 100	440	2	60	236 970	.....	970 343	B	261 658	3	19
540 540	4	60 to 100	550	2	60	236 971	.....	970 343	B	261 659	3	19
540 541	4	40 to 50	220	2	25	236 966	.....	970 343	B	261 660	3	19
540 542	4	40 to 50	440	2	25	236 967	.....	970 343	B	261 661	3	19
540 543	4	40 to 50	550	2	25	236 968	.....	970 343	B	261 659	3	19
540 544	4	40 to 50	220	3	25	236 967	.....	970 343	B	261 660	3	19
540 545	4	40 to 50	440	3	25	236 968	.....	970 343	B	261 661	3	19
540 546	4	40 to 50	550	3	25	236 971	.....	970 343	B	261 659	3	19
540 547	4	60 to 100	440	3	50	286 075	.....	970 343	B	261 659	3	19
540 548	4	60 to 100	550	3	50	236 970	.....	970 343	B	261 658	3	19
540 549	4	60 to 100	550	3	60	236 971	.....	970 343	B	261 659	3	19
540 550	4	60 to 100	550	3	60	236 971	.....	571 273	C+	261 659	3	19
574 205	4	60 to 100	550	3	25	236 966	.....	571 273	C+	261 659	3	19
574 575	4	40 to 50	220	2	25	236 967	.....	571 273	C	261 660	3	19
574 576	4	40 to 50	440	2	25	236 968	.....	571 273	C	261 661	3	19
574 577	4	40 to 50	550	2	25	236 970	.....	571 273	C+	261 658	3	19
574 578	4	60 to 100	440	2	60	236 971	.....	571 273	C+	261 659	3	19
574 579	4	60 to 100	550	2	60	236 966	.....	571 273	C+	261 659	3	19
574 580	4	40 to 50	220	3	25	236 967	.....	571 273	C	261 660	3	19
574 581	4	40 to 50	440	3	25	236 968	.....	571 273	C	261 661	3	19
574 582	4	40 to 50	550	3	25	236 971	.....	571 273	C+	261 659	3	19
574 583	4	60 to 100	440	3	50	286 075	.....	571 273	C+	261 659	3	19
574 584	4	60 to 100	550	3	50	236 970	.....	571 273	C+	261 658	3	19
574 585	4	60 to 100	440	3	60	236 954	.....	571 273	C	261 659	3	19
577 150,A,B	3	15	220	2	25	236 954	.....	571 273	C	261 659	3	19
577 151,A,B	3	20 to 25	220	2	25	236 954	.....	571 273	C	261 659	3	19
577 152,A,B	3	30	220	2	25	236 954	.....	571 273	C	261 659	3	19
577 153,A,B	3	15	440	2	25	236 956	.....	571 272	A	261 660	3	19
577 154,A,B	3	20 to 25	440	2	25	236 956	.....	571 272	A	261 660	3	19
577 155,A,B	3	30	440	2	25	236 956	.....	571 273	C	261 660	3	19
577 156,A,B	3	15	550	2	25	236 958	.....	571 272	A	261 661	3	19
577 157,A,B	3	20 to 25	550	2	25	236 958	.....	571 272	A	261 661	3	19
577 158,A,B	3	30	550	2	25	236 958	.....	571 272	A	261 661	3	19
577 159,A,B	3	40 to 50	220	2	60	236 960	.....	571 273	C+	261 657	3	19
577 160,A,B	3	40 to 50	440	2	60	236 962	.....	571 273	C	261 658	3	19
577 161,A,B	3	40 to 50	550	2	60	236 964	.....	571 273	C	261 659	3	19
577 162,A,B	3	15	220	3	25	236 955	.....	571 273	C	261 659	3	19
577 163,A,B	3	20 to 25	220	3	25	236 955	.....	571 273	C	261 659	3	19
577 164,A,B	3	30	220	3	25	236 955	.....	571 273	C	261 659	3	19
577 165,A,B	3	15	440	3	25	236 957	.....	571 272	A	261 660	3	19
577 166,A,B	3	20 to 25	440	3	25	236 957	.....	571 272	A	261 660	3	19
577 167,A,B	3	30	440	3	25	236 957	.....	571 272	A	261 661	3	19
577 168,A,B	3	15	550	3	25	236 959	.....	571 272	A	261 661	3	19
577 169,A,B	3	20 to 25	550	3	25	236 959	.....	571 272	A	261 661	3	19
577 170,A,B	3	30	550	3	25	236 959	.....	571 272	A	261 661	3	19
577 171,A,B	3	30	220	3	50	286 072	.....	571 273	C	261 657	3	19
577 172,A,B	3	40 to 50	220	3	50	286 072	.....	571 273	C+	261 657	3	19
577 173,A,B	3	30	440	3	50	236 965	.....	571 273	C	261 659	3	19
577 174,A,B	3	40 to 50	440	3	50	236 965	.....	571 273	C	261 659	3	19
577 175,A,B	3	30	550	3	50	286 073	.....	571 272	A	261 659	3	19
577 176,A,B	3	40 to 50	550	3	50	286 073	.....	571 273	C	261 659	3	19
577 177,A,B	3	40 to 50	220	3	60	236 961	.....	571 273	C+	261 657	3	19
577 178,A,B	3	40 to 50	440	3	60	236 963	.....	571 273	C	261 658	3	19
577 179,A,B	3	40 to 50	550	3	60	236 965	.....	571 273	C	261 659	3	19
594 654,A,B	5	125	220	2	60	236 977	.....	406 315	244 796	261 657	5	21
594 655,A,B	5	125	220	3	60	236 977	.....	869 923	244 796	261 657	5	21
1253 015	5	125	440	3	25	236 974	.....	860 068	273 947	261 660	5	21
1406 942	5	125	220	3	50	1406 533	.....	869 923	244 796	261 657	5	21
1406 943	5	100	220	3	60	236 977	.....	406 315	244 790	261 657	5	21
1502 711 to C	5	250	440	3	60	236 978	.....	1502 865	271 883	261 658	5	21
1502 849,A,B	4	40 to 50	220	2	25	236 966	.....	571 273	C+	261 659	3	19
1502 850,A,B	4	40 to 50	440	2	25	236 967	.....	571 273	C	261 660	3	19
1502 851,A,B	4	40 to 50	550	2	25	236 968	.....	571 273	C	261 661	3	19
1502 852,A,B	4	60 to 100	440	2	60	236 970	.....	571 273	C+	261 658	3	19
1502 853,A,B	4	60 to 100	550	2	60	236 971	.....	571 273	C+	261 659	3	19
1502 854,A,B	4	40 to 50	220	3	25	236 966	.....	571 273	C+	261 659	3	19
1502 855,A,B	4	40 to 50	440	3	25	236 967	.....	571 273	C	261 660	3	19
1502 856,A,B	4	40 to 50	550	3	25	236 968	.....	571 273	C	261 661	3	19
1502 857,A,B	4	60 to 100	440	3	50	236 971	.....	571 273	C+	261 659	3	19
1502 858,A,B	4	60 to 100	550	3	50	286 075	.....	571 273	C+	261 659	3	19
1502 859,A,B	4	60 to 100	440	3	60	236 970	.....	571 273	C+	261 658	3	19
1502 860,A,B	4	60 to 100	550	3	60	236 971	.....	571 273	C+	261 659	3	19
1502 868,A,B	5	60	220	3	25	236 973	.....	280 145	244 782	261 659	5	21
1502 869 to C	5	75	220	3	25	236 973	.....	406 315	244 790	261 659	5	21
1502 870 to C	5	100	220	3	25	236 973	.....	406 315	244 790	261 659	5	21
1502 871 to C	5	60	440	3	25	236 974	.....	280 149	244 798	261 660	5	21
1502 872 to C	5	75	440	3	25	236 974	.....	280 146	244 793	261 660	5	21
1502 873 to C	5	100	440	3	25	236 974	.....	406 317	244 797	261 660	5	21
1502 874 to C	5	60	550	3	25	236 975	.....	406 319	244 792	261 661	5	21
1502 875 to C	5	75	550	3	25	236 975	.....	280 149	244 798	261 661	5	21

A—for application of heaters see page 12, table A. B—for application of heaters see page 12, table B. C—for application of heaters see page 12, table C.
 † two or four heaters used. + four heaters used.

section one autostarter variable parts

renewal
parts data
10-700A
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starter characteristics						style number of variable parts					for common parts	
style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no.	page no.
1502 876 to C	5	100	550	3	25	236 975	...	406 320	244 693	261 661	5	21
1502 877 to C	5	125	440	3	25	236 974	...	860 068	273 947	261 660	5	21
1502 878 to C	5	60	220	3	50	286 068	...	860 068	273 947	261 657	5	21
1502 879 to C	5	75	220	3	50	286 068	...	280 145	244 782	261 657	5	21
1502 880 to C	5	100	220	3	50	286 068	...	406 315	244 790	261 657	5	21
1502 881 to C	5	125	440	3	50	236 979	...	860 068	273 947	261 659	5	21
1502 882 to C	5	150	440	3	50	236 979	...	280 145	244 782	261 659	5	21
1502 883 to C	5	200	440	3	50	236 979	...	460 315	244 790	261 659	5	21
1502 884 to C	5	125	220	3	50	1406 533	...	869 923	244 796	261 657	5	21
1502 885 to C	5	60	220	3	60	236 969	...	860 068	273 947	261 657	5	21
1502 886 to C	5	75	220	3	60	236 969	...	280 145	244 782	261 657	5	21
1502 887 to C	5	100	220	3	60	236 969	...	406 315	244 790	261 657	5	21
1502 888 to C	5	125	440	3	60	236 978	...	860 068	273 947	261 658	5	21
1502 889 to C	5	150	440	3	60	236 978	...	280 145	244 782	261 658	5	21
1502 890 to C	5	200	440	3	60	236 978	...	406 315	244 790	261 658	5	21
1502 891 to C	5	125	550	3	60	236 979	...	406 317	244 797	261 659	5	21
1502 892 to C	5	150	550	3	60	236 979	...	860 068	273 947	261 659	5	21
1502 893 to C	5	200	550	3	60	236 979	...	280 145	244 782	261 659	5	21
1502 894 to C	5	100	220	3	60	236 977	...	406 315	244 790	261 657	5	21
1502 895 to C	5	125	220	3	60	236 977	...	869 923	244 796	261 657	5	21
1502 900 to C	5	60	220	2	25	236 973	...	406 317	244 797	261 659	5	21
1502 901 to C	5	75	220	2	25	236 973	...	406 316	273 946	261 659	5	21
1502 902 to C	5	100	220	2	25	236 973	...	280 144	273 945	261 659	5	21
1502 903 to C	5	60	440	2	25	236 974	...	406 321	244 792	261 660	5	21
1502 904 to C	5	75	440	2	25	236 974	...	280 147	244 796	261 660	5	21
1502 905 to C	5	100	440	2	25	236 974	...	406 318	244 783	261 660	5	21
1502 906 to C	5	60	550	2	25	236 975	...	406 322	244 784	261 661	5	21
1502 907 to C	5	75	550	2	25	236 975	...	406 321	244 792	261 661	5	21
1502 908 to C	5	100	550	2	25	236 975	...	861 673	244 789	261 661	5	21
1502 909 to C	5	60	220	2	60	236 969	...	406 317	244 797	261 657	5	21
1502 910 to C	5	75	220	2	60	236 969	...	406 316	273 946	261 657	5	21
1502 911 to C	5	100	220	2	60	236 969	...	280 144	273 945	261 657	5	21
1502 912 to C	5	125	440	2	60	236 978	...	280 148	244 797	261 658	5	21
1502 913 to C	5	150	440	2	60	236 978	...	861 676	273 947	261 658	5	21
1502 914 to C	5	200	440	2	60	236 978	...	861 677	244 782	261 658	5	21
1502 915 to C	5	125	550	2	60	236 979	...	861 678	244 783	261 659	5	21
1502 916 to C	5	150	550	2	60	236 979	...	861 679	244 791	261 659	5	21
1502 917 to C	5	200	550	2	60	236 979	...	861 680	273 946	261 659	5	21
1502 918 to C	5	125	220	2	60	236 977	...	406 315	244 790	261 657	5	21
1502 919	1	5 to 10	220	2	60	287 399	...	520 536	A	244 703	1	15
1502 920	1	5 to 10	440	2	60	287 401	...	520 536	A	243 164	1	15
1502 921	1	5 to 10	550	2	60	287 403	...	520 536	A	243 164	1	15
1502 922	1	5 to 10	220	3	60	287 406	...	520 537	A	244 703	1	15
1502 923	1	5 to 10	440	3	60	287 402	...	520 537	A	243 164	1	15
1502 924	1	5 to 10	550	3	60	287 404	...	520 537	A	243 164	1	15
1502 925	2	5 to 10	220	2	25	236 942	...	520 532	A	261 659	3	19
1502 926	2	5 to 10	440	2	25	236 944	...	520 532	A	261 660	3	19
1502 927	2	5 to 10	550	2	25	236 946	...	520 532	A	261 661	3	19
1502 928	2	15	220	2	60	283 484	...	520 533	B	261 657	3	19
1502 929	2	20 to 25	220	2	60	236 948	...	520 533	B	261 657	3	19
1502 930	2	30	220	2	60	236 948	...	520 533	B	261 657	3	19
1502 931	2	15	440	2	60	236 952	...	520 532	A	261 658	3	19
1502 932	2	20 to 25	440	2	60	236 950	...	520 532	A	261 658	3	19
1502 933	2	30	440	2	60	236 950	...	520 532	B	261 658	3	19
1502 934	2	15	550	2	60	236 952	...	520 532	A	261 659	3	19
1502 935	2	20 to 25	550	2	60	236 952	...	520 532	A	261 659	3	19
1502 936	2	30	550	2	60	236 952	...	520 532	A	261 659	3	19
1502 937	2	5 to 10	220	2	25	236 943	...	520 534	A	261 659	3	19
1502 938	2	5 to 10	440	2	25	236 945	...	520 534	A	261 660	3	19
1502 939	2	5 to 10	550	2	25	236 947	...	520 534	A	261 661	3	19
1502 940	2	5 to 10	220	3	50	236 951	...	520 534	A	261 657	3	19
1502 941	2	15	220	3	50	286 070	...	520 535	B	261 657	3	19
1502 942	2	20 to 25	220	3	50	286 070	...	520 535	B	261 657	3	19
1502 943	2	5 to 10	440	3	50	471 867	...	520 534	A	261 659	3	19
1502 944	2	15	440	3	50	236 953	...	520 534	A	261 659	3	19
1502 945	2	20 to 25	440	3	50	236 953	...	520 534	A	261 659	3	19
1502 946	2	5 to 10	550	3	50	286 071	...	520 534	A	261 659	3	19
1502 947	2	15	550	3	50	286 071	...	520 534	A	261 659	3	19
1502 948	2	20 to 25	550	3	50	286 071	...	520 534	A	261 659	3	19
1502 949	2	15	220	3	60	293 493	...	520 535	B	261 657	3	19
1502 950	2	20 to 25	220	3	60	236 949	...	520 535	B	261 657	3	19
1502 951	2	30	220	3	60	236 949	...	520 535	B	261 657	3	19
1502 952	2	15	440	3	60	236 953	...	520 534	A	261 658	3	19
1502 953	2	20 to 25	440	3	60	236 951	...	520 534	A	261 658	3	19
1502 954	2	30	440	3	60	236 951	...	520 535	B	261 658	3	19
1502 955	2	15	550	3	60	236 953	...	520 534	A	261 658	3	19
1502 956	2	20 to 25	550	3	60	236 953	...	520 534	A	261 658	3	19
1502 957	2	30	550	3	60	236 953	...	520 534	A	261 658	3	19
1502 958, A	3	15	220	3	25	236 953	...	571 273	C	261 659	3	19
1502 959, A	3	20 to 25	220	3	25	236 953	...	571 273	C	261 659	3	19

A—for application of heaters see page 12, table A. B—for application of heaters see page 12, table B. C—for application of heaters see page 12, table C.

starter characteristics						style number of variable parts					for common parts	
style number	frame no.	horsepower	volts	phase	cycles	auto transformer	voltage transformer	relay with panel	relay coil or heater	low voltage release coil	table no.	page no.
1502 960,A	3	30	220	3	25	236 955	...	571 273	C	261 659	3	19
1502 961,A	3	15	440	3	25	236 957	...	571 272	A	261 660	3	19
1502 962,A	3	20 to 25	440	3	25	236 957	...	571 272	A	261 660	3	19
1502 963,A	3	30	440	3	25	236 957	...	571 273	C	261 660	3	19
1502 964,A	3	15	550	3	25	236 959	...	571 272	A	261 661	3	19
1502 965,A	3	20 to 25	550	3	25	236 959	...	571 272	A	261 661	3	19
1502 966,A	3	30	550	3	25	236 959	...	571 272	A	261 661	3	19
1502 967,A	3	30	220	3	50	286 072	...	571 273	C	261 657	3	19
1502 968,A	3	40 to 50	220	3	50	286 072	...	571 273	C+	261 657	3	19
1502 969,A	3	30	440	3	50	236 965	...	571 273	C	261 659	3	19
1502 970,A	3	40 to 50	440	3	50	236 965	...	571 273	C	261 659	3	19
1502 971,A	3	30	550	3	50	286 073	...	571 272	A	261 659	3	19
1502 972,A	3	40 to 50	550	3	50	286 073	...	571 273	C	261 659	3	19
1502 973,A	3	40 to 50	220	3	60	236 961	...	571 273	C+	261 657	3	19
1502 974,A	3	40 to 50	440	3	60	236 963	...	571 273	C	261 658	3	19
1502 975,A	3	40 to 50	550	3	60	236 965	...	571 273	C	261 659	3	19
1502 976,A	3	15	220	2	25	236 954	...	571 273	C	261 659	3	19
1502 977,A	3	20 to 25	220	2	25	236 954	...	571 273	C	261 659	3	19
1502 978,A	3	30	220	2	25	236 954	...	571 273	C	261 659	3	19
1502 979,A	3	15	440	2	25	236 956	...	571 272	A	261 660	3	19
1502 980,A	3	20 to 25	440	2	25	236 956	...	571 273	C	261 660	3	19
1502 981,A	3	30	440	2	25	236 956	...	571 272	A	261 661	3	19
1502 982,A	3	15	550	2	25	236 958	...	571 272	A	261 661	3	19
1502 983,A	3	20 to 25	550	2	25	236 958	...	571 272	A	261 661	3	19
1502 984,A	3	30	550	2	25	236 958	...	571 272	A	261 661	3	19
1502 985,A	3	40 to 50	220	2	60	236 960	...	571 273	C+	261 657	3	19
1502 986,A	3	40 to 50	440	2	60	236 962	...	571 273	C	261 658	3	19
1502 987,A	3	40 to 50	550	2	60	236 964	...	571 273	C	261 659	3	19

A—for application of heaters see page 12, table A.
C—for application of heaters see page 12, table C.

+ four heaters used.

overload relay heater tables

Recommended application of heaters for thermal overload relays based on terminal current marked on motor nameplate.

table A

amperes per terminal	style number of heater two per starter
0.70 to 0.90	511 342
0.91 to 1.20	511 341
1.21 to 1.45	511 263
1.46 to 1.65	511 264
1.66 to 1.80	511 265
1.81 to 2.00	511 261
2.01 to 2.25	511 262
2.26 to 2.70	551 944
2.71 to 3.10	551 941
3.15 to 3.65	551 942
3.7 to 4.1	551 943
4.2 to 4.9	551 937
5.0 to 5.8	551 938
5.9 to 6.7	551 939
6.8 to 7.3	551 940
7.4 to 7.8	511 343
7.9 to 9.5	474 419
9.6 to 11.0	474 420
11.1 to 13.0	474 421
13.1 to 14.5	474 422
14.6 to 17.5	502 915
17.6 to 20	474 425
20.1 to 22	474 426
22.1 to 25	474 427
25.1 to 27	501 695
27.1 to 31	474 429
31.1 to 35	474 431

table B

amperes per terminal	style number of heater two per starter
32.0 to 35	501 694
35.1 to 42	760 593
42.1 to 50	474 432
50.1 to 58	474 433
58.1 to 62	474 434
62.1 to 70	474 436
71.0 to 83	539 018

table C

amperes per terminal	style no. of heater	no. used
32.0 to 35	501 694	2
35.1 to 42	760 593	2
42.1 to 50	474 432	2
50.1 to 58	474 433	2
58.1 to 62	474 434	2
62.1 to 70	474 436	2
71 to 83	539 018	2
84 to 91	474 432	4
92 to 106	474 433	4
107 to 112	474 434	4
113 to 126	474 436	4
127 to 150	539 018	4



auto-starters (section two) type A

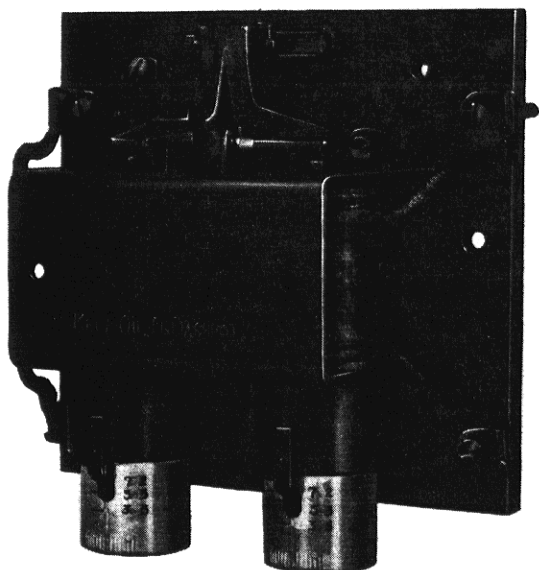
*common style numbers
and parts*

renewal
parts date
10-700A

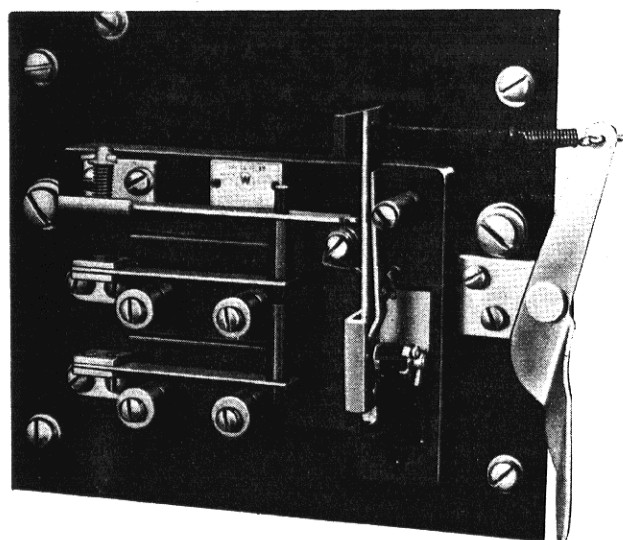
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general information

Section two lists common style numbers and parts pertaining to all type A auto-starters. The breakdown in the following pages is by type of relay, whether it be type KN or type TA, and by frame sizes. The index below will guide the user to find table of common parts.



type KN overload relay



type TA overload relay

index

auto-starter with type KN relay

frame 1	
illustration.....	page 16
table.....	page 17

frame 2•3•4•5	
illustration.....	page 20
table.....	page 21

frame 10•11•12	
illustration.....	page 22
table.....	page 23

auto-starter with type TA relay

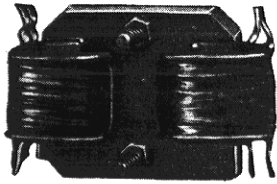
frame 1	
illustration.....	page 14
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frame 2•3•4	
illustration.....	page 18
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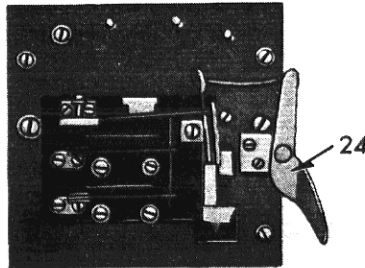
time delay low voltage mechanism

illustration and table.....	page 24
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type A auto-starter with type TA overload relay



30



23



29



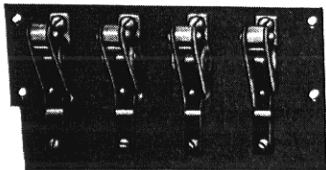
28



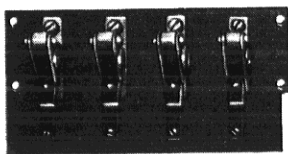
21



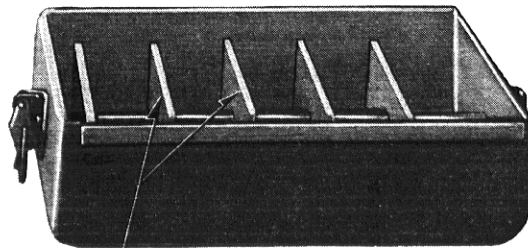
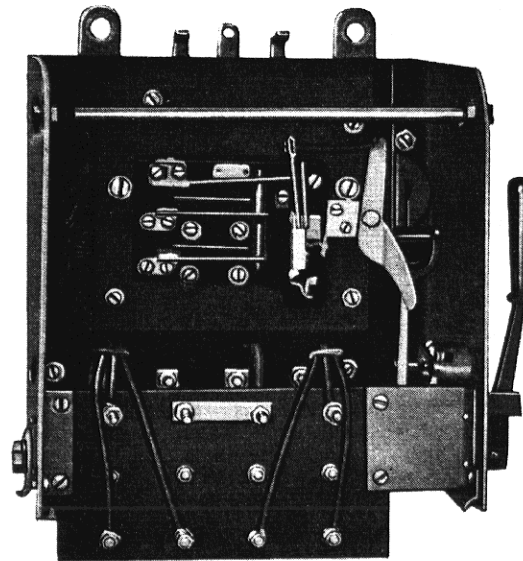
20



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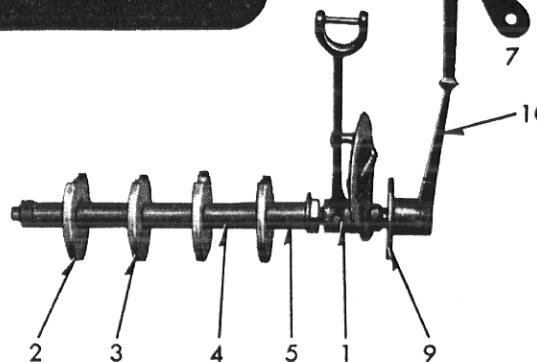
13



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table 1

ref. no.	description of part	two phase		three phase	
		style number	no. used	style number	no. used
1	operating shaft complete with bearing.....	261 978	1	261 977	1
2	cam.....	370 299	4	370 299	3
△ 3	cam—fourth from handle.....	370 300	1		
4	cam—third from handle.....			370 300	1
5	long spacer.....			370 302	3
5	short spacer.....	370 301	6	370 301	2
6	left hand return lever.....	368 646	1	368 646	1
7	right hand return lever.....	368 645	1	368 645	1
8	return lever spring.....	288 559	1	288 559	1
9	bearing.....	247 304	1	247 304	1
10	handle.....	247 318	1	247 318	1
11	front contact base with contacts.....	261 583	1	261 585	1
12	moving contact complete with support.....	247 316	5	247 316	4
13	moving contact.....	276 861	5	276 861	4
14	contact spring.....	247 317	5	247 317	4
15 ■	stationary contact.....	1502 361	5	1502 361	4
16 ■	stationary contact support.....	1502 362	5	1502 362	4
17	connection strap for inner contacts.....	261 582	1	261 581	1
18	rear contact base with contacts.....	261 584	1	261 586	1
12	moving contact complete with support.....	247 316	5	247 316	4
13	moving contact.....	276 861	5	276 861	4
14	contact spring.....	247 317	5	247 317	4
15 ■	stationary contact.....	1502 361	5	1502 361	4
16 ■	stationary contact support.....	1502 362	5	1502 362	4
17	connection strap for inner contacts.....	261 582	2	261 581	2
19	safety catch.....	247 335	1	247 335	1
20	bearing.....	247 304	1	247 304	1
21	large porcelain bushing for open wiring.....	249 521	2	249 521	2
21	small porcelain bushing for open wiring.....	205 045	2	205 045	2
22	arc shield.....	247 099	1	247 100	1
23	type TA relay with panel.....	□	1	□	1
△	contact finger with shunt.....	490 053	1	490 053	1
△	contact finger spring.....	526 597	1	526 597	1
△	stationary contact.....	467 961	1	467 961	1
△	latch arm.....	478 776	1	478 776	1
△	latch spring.....	485 926	1	485 926	1
△	latch push rod.....	478 778	1	478 778	1
24	reset arm.....	709 559	1	709 559	1
△	heater for relay.....	□	2	□	2
25-26	low voltage release without operating coil.....	1502 384	1	1502 384	1
27	low voltage release hinge pin.....	662 204	1	662 204	1
28	shading coil—60 cycles.....	204 950	1	204 950	1
29	low voltage release coil.....	□	1	□	1
30	auto-transformer.....	□	1	□	1

parts indented are included in the part under which they are indented.

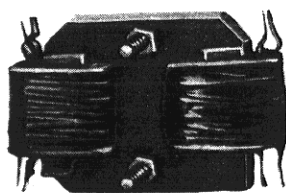
△ not illustrated.

■ for auto-starters below style series 1502 000 order contact S#247 399 and support S#247 311.

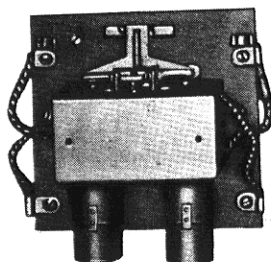
□ see pages 2 to 12.

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type A auto-starter with type KN overload relay



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28



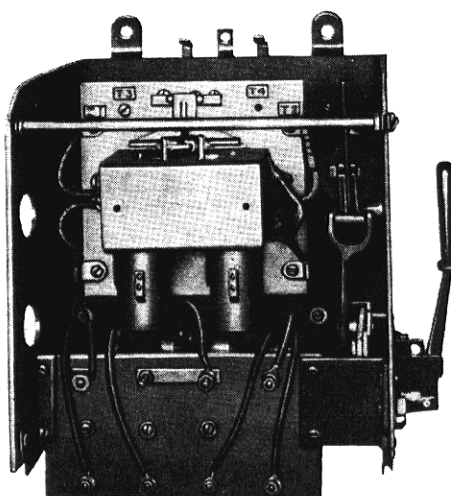
27



21



20



24



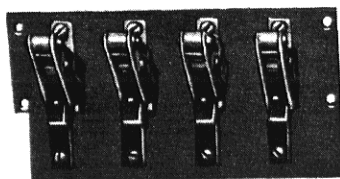
25



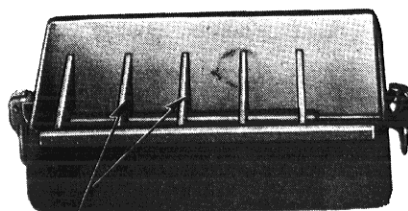
26



19



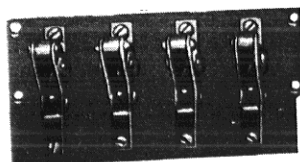
18



22



17



11



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16



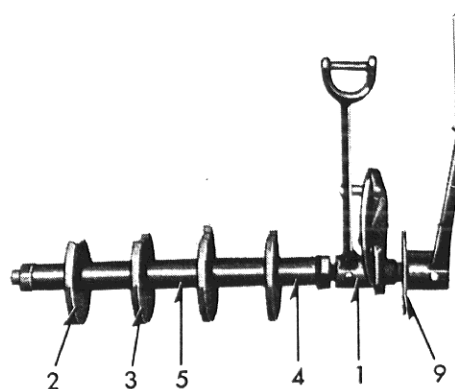
13



12



14



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8

section two
type A auto-starter
frame no. 1

renewal
parts data *
10-700A
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table 2

ref. no.	description of part	two phase		three phase	
		style number	no. used	style number	
1	operating shaft complete with bearing.....	261 978	1	261 977	
2	cam.....	370 299	4	370 299	
△ 3	cam—fourth from handle.....	370 300	1	370 300	
△ 3	cam—third from handle.....			370 300	
△ 4	spacer.....	370 301	6	370 301	
4	short spacer.....			370 301	
5	long spacer.....			370 302	
6	left hand return lever.....	368 646	1	368 646	
7	right hand return lever.....	368 645	1	368 645	
8	return lever spring.....	288 569	1	288 569	
9	bearing.....	247 304	1	247 304	
10	handle.....	247 318	1	247 318	
11	front contact base with contacts.....	261 583	1	261 583	
12	moving contact complete with support.....	247 316	5	247 316	
13	moving contact.....	276 861	5	276 861	
14	contact spring.....	247 317	5	247 317	
15	stationary contact support.....	1502 362	5	1502 362	
16	stationary contact.....	1502 361	5	1502 361	
17	connection strap for inner contacts.....	261 582	1	261 581	
18	rear contact base with contacts.....	261 584	1	261 586	
12	moving contact complete with support.....	247 316	5	247 316	
13	moving contact.....	276 861	5	276 861	
14	contact spring.....	247 317	5	247 317	
15	stationary contact support.....	1502 362	5	1502 362	
16	stationary contact.....	1502 361	5	1502 361	
17	connection strap for inner contacts.....	261 582	2	261 581	
19	safety catch.....	247 335	1	247 335	
20	bearing.....	247 304	1	247 304	
21	large porcelain bushing for open wiring.....	249 521	2	249 521	
21	small porcelain bushing for open wiring.....	205 045	2	205 045	
22	arc shield.....	247 099	1	247 100	
23	type KN overload relay with panel.....	□	1	□	
△	moving contact.....	266 584	1	266 584	
△	moving contact spring.....	194 510	1	194 510	
△	stationary contact.....	369 702	2	369 702	
△	operating coil for relay.....	□	2	□	
△	can of dash pot oil for relay.....	229 296	1	229 296	
24-25	low voltage release without coil.....	1502 384	1	1502 384	
26	low voltage release hinge pin.....	662 204	1	662 204	
27	shading coil for stationary core.....	204 950	1	204 950	
28	low voltage release coil.....	□	1	□	
29	auto-transformer.....	□	1	□	

parts indented are included in the part under which they are indented.

△ not illustrated.

■ for auto-starters below style series 1502 000 order contact S#247 399 and support S#247 311.

□ see pages 2 to 12.

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type A auto-starter with type TA overload relay

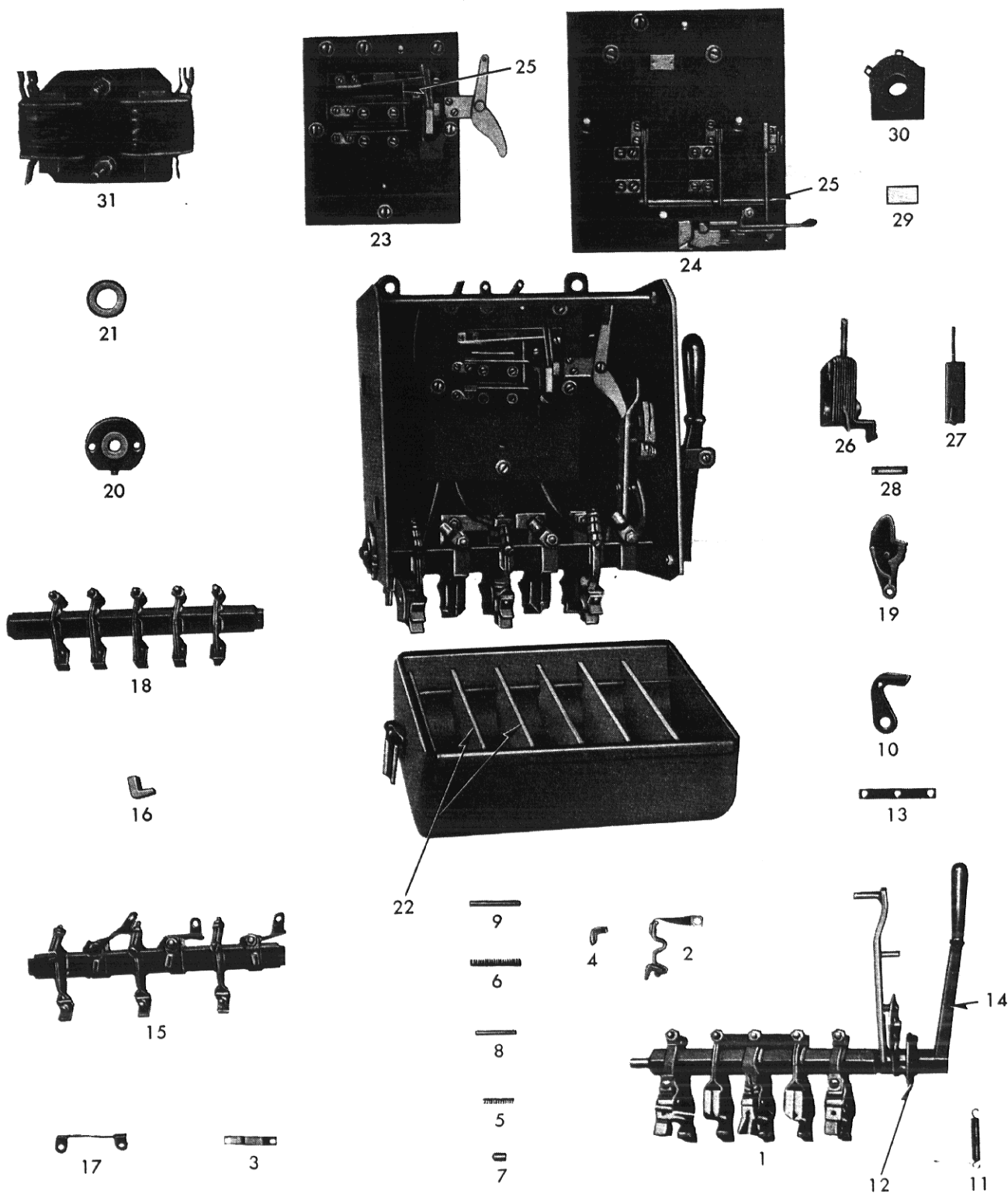
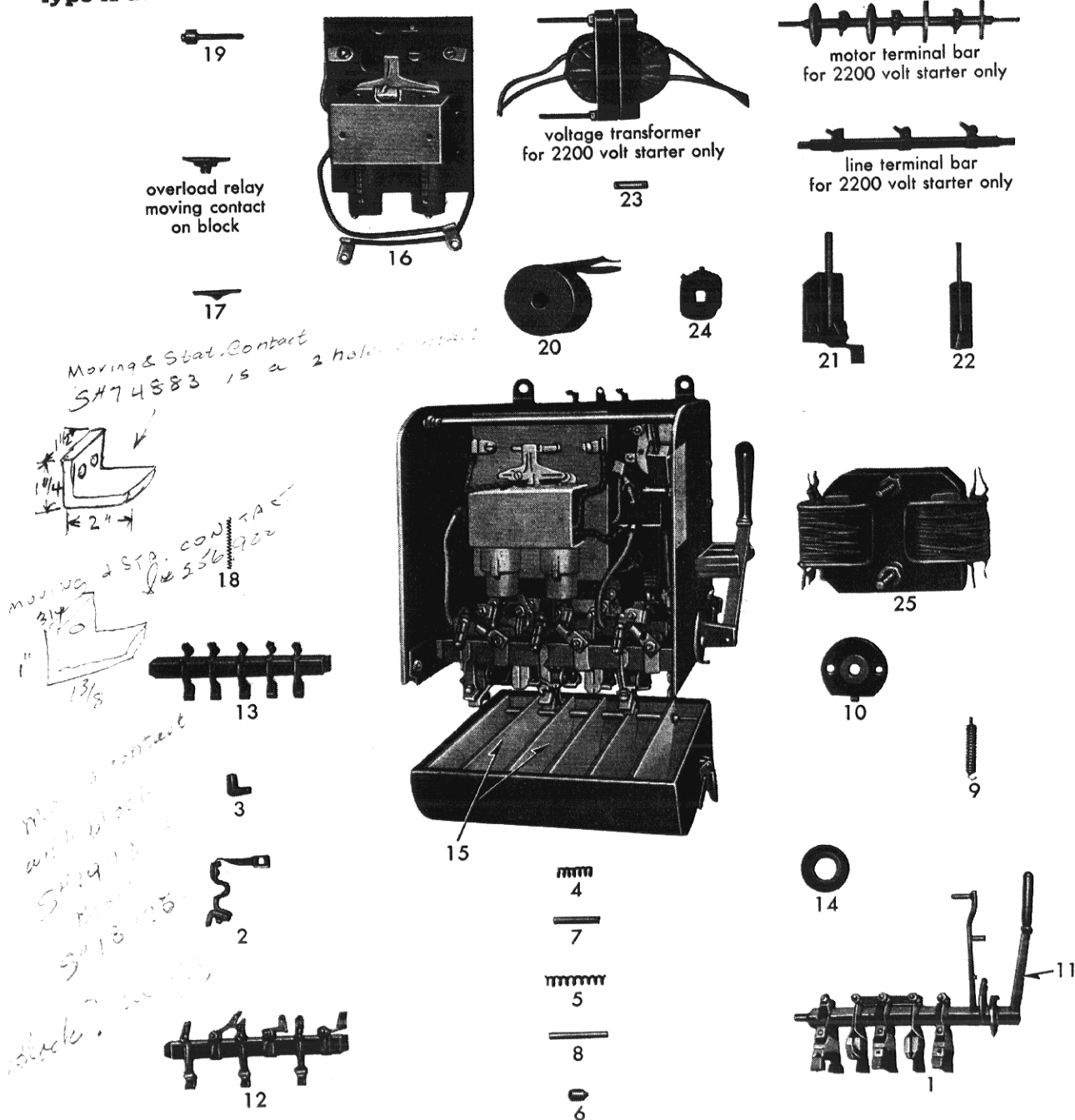


table 3

ref. no.	description of part	two phase				no. used	three phase			
		frame 2	frame 3	frame 4	frame 2		frame 3	frame 4	no. used	
		style number of part					style number of part			
1	operating shaft complete with bearing	1499 840	261 653	1502 545	1	1499 729	261 651	1502 544	1	
2	shaft with insulation	273 290	273 293	273 290	1	273 290	273 293	273 290	1	
3	contact holder with shunt and contact	247 433	263 008	263 009	10	247 433	263 009	263 009	8	
3	contact holder with shunt	293 719	293 719	293 719	10	293 719	293 719	293 719	8	
4	shunt	286 347	286 347	286 347	10	286 347	286 347	286 347	8	
4	moving contact	178 791	256 922	256 922	10	178 791	256 922	256 922	8	
5	contact spring for single contact	279 415	279 415	279 415	2	279 415	279 415	279 415	2	
6	contact spring for double contact	247 447	247 447	247 447	4	247 447	247 447	247 447	3	
7	contact spring end	279 414	279 414	279 414	12	279 414	279 414	279 414	10	
8	contact spring rod for single contact	279 412	279 412	279 412	2	279 412	279 412	279 412	2	
9	contact spring rod for double contact	279 413	279 413	279 413	4	279 413	279 413	279 413	3	
10	return lever	247 422	247 422	247 422	2	247 422	247 422	247 422	2	
11	return lever spring	247 450	247 450	247 450	1	247 450	247 450	247 450	1	
12	bearing	247 418	247 418	247 418	1	247 418	247 418	247 418	1	
13	connection strap—inner contact	1502 090	1502 092	1502 094	2	1502 091	1502 093	1502 095	1	
14	handle	544 929	544 929	1447 942	1	544 929	544 929	1447 942	1	
15	front stationary contact assembly with shaft	1499 834	256 347	538 999	1	1499 723	256 345	539 000	1	
16	stationary contact	178 791	256 922	256 922	4	178 791	256 922	256 922	3	
3	strap shunt		597 508	597 508	4		597 508	597 508	3	
17	braided shunt with terminals	672 095	247 449	247 449	4	247 449	247 449	247 449	3	
18	rear stationary contact assembly with shaft	1499 835	256 348	273 191	1	1499 724	256 346	273 222	1	
16	stationary contact	178 791	256 922	256 922	6	178 791	256 922	256 922	5	
19	safety catch	355 463	355 463	355 463	1	355 463	355 463	355 463	1	
20	bearing	247 418	247 418	247 418	1	247 418	247 418	247 418	1	
21	porcelain bushing for open wiring	249 522	249 523	249 524	2	249 522	249 523	249 524	2	
22	arc shield	247 101	247 104	280 341	1	247 102	247 103	280 342	1	
23	type TA relay with panel	□			1	□			1	
24	type TA relay with panel		□	□	1		□	□	1	
△	contact finger with shunt	490 093	490 093	490 093	1	490 093	490 093	490 093	1	
△	contact finger spring	526 597	526 597	526 597	1	526 597	526 597	526 597	1	
△	stationary contact	467 961	467 961	467 961	1	467 961	467 961	467 961	1	
△	latch arm	478 776	478 776	478 776	1	478 776	478 776	478 776	1	
△	latch spring	485 926	485 926	485 926	1	485 926	485 926	485 926	1	
25	latch push rod—2 1/8" long	478 778	478 778	478 778	1	478 778	478 778	478 778	1	
25	latch push rod—5/8" long		575 162	575 162	1		575 162	575 162	1	
△	heater for relay	□	□	□	2	□	□	□	2	
26-27	low voltage release without operating coil—25 cycle	1499 821	1499 822	1499 823	1	1499 821	1499 822	1499 823	1	
26-27	low voltage release without operating coil—50/60 cycle	1499 827	1499 828	1499 829	1	1499 827	1499 828	1499 829	1	
28	low voltage release hinge pin	63 613	63 613	63 613	1	63 613	63 613	63 613	1	
29	shading coil—25 cycle	256 246	256 246	256 246	1	256 246	256 246	256 246	1	
29	shading coil—50/60 cycle	152 692	152 692	152 692	1	152 692	152 692	152 692	1	
30	low voltage release coil	□	□	□	1	□	□	□	1	
31	auto-transformer	□	□	□	1	□	□	□	1	

parts indented are included in the part under which they are indented.
 △ not illustrated. ● two or four heaters with frames 3 and 4.
 □ see pages 2 to 12.

type A auto-starter with type KN overload relay



renewal parts for type KN overload relay

ref. no.	description of part	style number of part				no. used
		frame 2	frame 3	frame 4	frame 5	
16	complete overload relay with panel.....	☐	☐	☐	☐	1
17	overload relay moving contact.....	266 584	266 584	266 584	266 584	1
18	overload relay resetting spring.....	194 510	194 510	194 510	194 510	1
19	overload relay stationary contact.....	763 626	763 626	705 233	763 625	2 1/2
20	overload relay coil.....	☐	☐	☐	☐	1
△	can of dash pot oil for relay.....	229 296	229 296	229 296	229 296	1

parts indented are included in the part under which they are indented.
△ not illustrated.
□ see pages 2 to 12.

section two
type A auto-starter
frame nos. 2-3-4-5

renewal
parts data
10-700A

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table 4

ref. no.	description of part	two phase				three phase			
		frame 2	frame 3	frame 4	no. used	frame 2	frame 3	frame 4	no. used
		style number of part				style number of part			
1	operating shaft complete with bearing	1499 840	281 653	1502 545	1	1499 729	281 651	1502 544	1
△	shaft with insulation	273 290	273 293	273 290	1	273 290	273 293	273 290	1
2	contact holder with shunt and contact	247 433	263 009	263 009	10	247 433	263 009	263 009	10
△	contact holder with shunt	293 719	293 719	293 719	10	293 719	293 719	293 719	10
△	shunt	286 347	286 347	286 347	10	286 347	286 347	286 347	10
3	moving contact	178 791	256 922	256 922	10	178 791	256 922	256 922	10
4	contact spring for one contact	279 415	279 415	279 415	2	279 415	279 415	279 415	2
5	contact spring for two contacts	247 447	247 447	247 447	4	247 447	247 447	247 447	4
6	contact spring end	279 414	279 414	279 414	12	279 414	279 414	279 414	12
7	contact spring rod for one contact	279 412	279 412	279 412	2	279 412	279 412	279 412	2
8	contact spring rod for two contacts	279 413	279 413	279 413	4	279 413	279 413	279 413	4
△	return lever	247 422	247 422	247 422	2	247 422	247 422	247 422	2
9	return lever spring	247 450	247 450	247 450	1	247 450	247 450	247 450	1
10	bearing	247 418	247 418	247 418	1	247 418	247 418	247 418	1
△	connection strap—inner contact	1502 050	1502 052	1502 054	2	1502 051	1502 053	1502 055	2
11	handle	544 928	544 929	1447 942	1	544 929	544 929	1447 942	1
12	front stationary contact assembly with shaft	1499 834	256 347	538 999	1	1499 723	256 345	539 000	1
△	stationary contact	178 791	256 922	256 922	4	178 791	256 922	256 922	4
△	strap shunt	597 508	597 508	597 508	4	597 508	597 508	597 508	4
△	braided shunt with terminal	672 095	247 449	247 449	4	247 449	247 449	247 449	4
13	rear stationary contact assembly with shaft	1499 835	256 348	273 191	1	1499 724	256 346	273 222	1
3	stationary contact	178 791	256 922	256 922	6	178 791	256 922	256 922	6
△	safety catch	355 463	355 463	355 463	1	355 463	355 463	355 463	1
△	bearing	247 418	247 418	247 418	1	247 418	247 418	247 418	1
14	bushing for open wiring	249 522	249 523	249 524	2	249 522	249 523	249 524	2
15	arc shield	247 101	247 104	280 341	1	247 102	247 103	280 342	1
16 to 20	complete overload relay with panel	see pg 20	see pg 20	see pg 20	1	see pg 20	see pg 20	see pg 20	1
21-22	low voltage release without operating coil—25 cycle	1499 821	1499 822	1499 823	1	1499 821	1499 822	1499 823	1
21-22	low voltage release without operating coil—50/60 cycle	1499 827	1499 828	1499 829	1	1499 827	1499 828	1499 829	1
23	low voltage release hinge pin	63 613	63 613	63 613	1	63 613	63 613	63 613	1
△	shading coil—25 cycle	256 246	256 246	256 246	1	256 246	256 246	256 246	1
△	shading coil—60 cycle	152 692	152 692	152 692	1	152 692	152 692	152 692	1
24	low voltage release coil	□	□	□	1	□	□	□	1
25	auto-transformer	□	□	□	1	□	□	□	1

table 5

ref. no.	description of part	two phase		three phase		two phase		three phase	
		frame 5 above style number 478 000 (wide single contact)				frame 5 below style number 478 000 (narrow double contact)			
		style number	no. used	style number	no. used	style number	no. used	style number	no. used
1	operating shaft complete with bearing	1499 375	1	1499 386	1	280 141	1	280 138	1
△	shaft with insulation	280 121	1	280 121	1	280 121	1	280 121	1
△	contact holder with braided shunt and contact	1419 399	4	1419 399	3	..	..	..	..
△	contact holder	1549 518	4	1549 518	3	..	..	..	..
△	braided shunt	1419 401	8	1419 401	6	..	..	..	..
3	moving contact	74 883	4	74 883	3	..	..	..	..
△	moving contact screw	106 149	8	106 149	6	..	..	..	..
2	contact holder with shunt and contact	1419 400	6	1419 400	5	263 009	20	263 009	16
△	contact holder	1549 518	6	1549 518	5	293 719	20	293 719	16
△	shunt	487 525	12	487 525	10	286 347	20	286 347	16
3	moving contact	74 883	6	74 883	5	256 922	20	256 922	16
△	moving contact screw	106 149	12	106 149	10	103 184	20	103 184	16
4	contact spring for one contact	1746 581	4	1746 581	4	279 415	4	279 415	4
5	contact spring for two contacts	1549 582	8	1549 582	6	247 447	8	247 447	6
6	contact spring end	511 839	12	511 839	10	279 414	24	279 414	20
△	contact spring end—male	511 840	4	511 840	4	..	..	..	..
△	contact spring end—female for one contact	511 841	8	511 841	6	..	..	..	..
△	contact spring end—female for two contacts	..	..	..	..	..	..	..	..
7	contact spring rod for one contact	..	..	..	..	279 412	4	279 412	4
8	contact spring rod for two contacts	..	..	..	..	279 413	8	279 413	6
△	return lever	247 422	2	247 422	2	247 422	2	247 422	2
9	return lever spring	247 450	1	247 450	1	247 450	1	247 450	1
10	bearing	247 418	1	247 418	1	247 418	1	247 418	1
△	connection strap—inner contacts	1502 447	2	1502 448	1	280 127	2	280 126	1
11	handle	1447 942	1	1447 942	1	1447 942	1	1447 942	1
12	front stationary contact assembly with shaft	481 262	1	481 389	1	280 142	1	280 139	1
△	stationary contact	74 883	4	74 883	3	256 922	8	256 922	6
△	stationary contact screw	106 149	8	106 149	6	292 374	8	292 374	6
△	shunt complete with terminal—left hand	1490 524*	2	1490 524*	1	285 633	2	285 633	2
△	shunt complete with terminal—right hand	1490 525*	2	1490 525*	2	285 634	2	285 634	1
13	rear stationary contact assembly with shaft	481 263	1	481 388	1	280 143	1	280 140	1
3	stationary contact	74 883	6	74 883	5	256 922	12	256 922	10
△	stationary contact screw	106 149	12	106 149	10	292 374	12	292 374	10
△	safety catch	355 463	1	355 463	1	355 463	1	355 463	1
△	bearing	247 418	1	247 418	1	247 418	1	247 418	1
14	bushing for open wiring	249 524	2	249 524	2	249 524	2	249 524	2
15	arc shield	280 365	1	280 366	1	280 365	1	280 366	1
16 to 20	complete overload relay with panel	see pg 20	..	see pg 20	..	see pg 20	..	see pg 20	..
21-22	low voltage release without operating coil—25 cycle	1499 821	..	1499 821	..	1499 821	..	1499 821	1
21-22	low voltage release without operating coil—50/60 cycle	1499 827	1	1499 827	1	1499 827	1	1499 827	1
23	low voltage release hinge pin	63 613	1	63 613	1	63 613	1	63 613	1
△	shading coil—25 cycle	256 246	1	256 246	1	256 246	1	256 246	1
△	shading coil—50/60 cycle	152 692	1	152 692	1	152 692	1	152 692	1
24	low voltage release coil	□	1	□	1	□	1	□	1
25	auto-transformer	□	1	□	1	□	1	□	1

parts indented are included in the part under which they are indented. △ not illustrated. □ see pages 2 to 12.
* for autostarters below style series 1502 000 order left hand shunt with terminal S 511 842 and right hand shunt with terminal S 511 843.

type A auto-starter with type KN overload relay

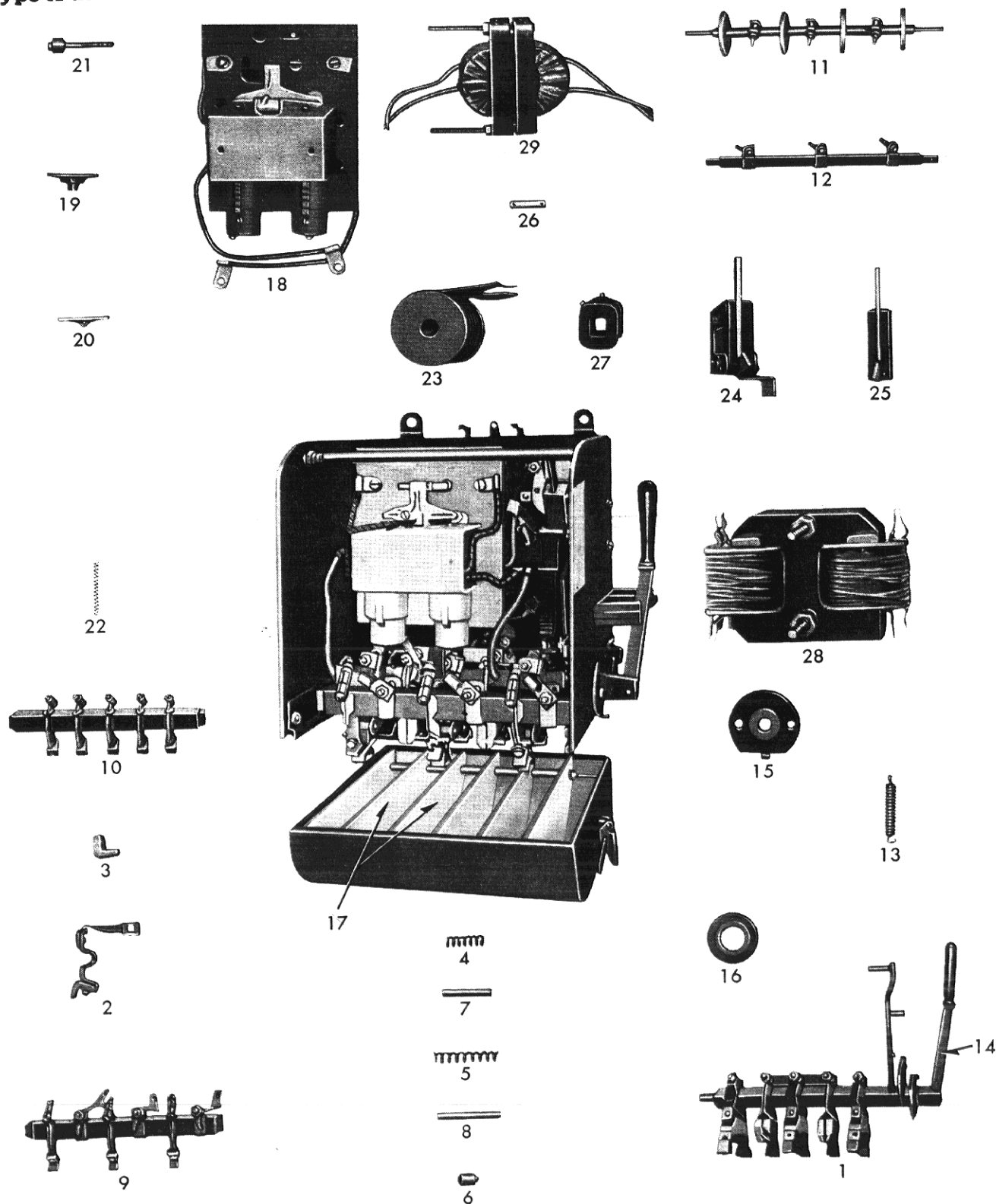


table 6

ref. no.	description of part	two phase				three phase			
		frame 10	frame 11	frame 12	no. used	frame 10	frame 11	frame 12	no. used
		style number of part				style number of part			
1	operating shaft complete with gear	275 492	275 509	275 525	1	275 491	275 508	275 524	1
△	shaft with insulation	275 472	275 435	275 445	1	275 472	275 435	275 445	1
△	contact holder support—single	247 432	247 432	247 432	4	247 432	247 432	247 432	3
△	contact holder support—double	247 431	247 431	247 431	4	247 431	247 431	247 431	3
2	contact holder with shunt and contact	263 009	263 009	263 009	12	263 009	263 009	263 009	9
△	contact holder with shunt	293 719	293 719	293 719	12	293 719	293 719	293 719	9
△	flat shunt	286 347	286 347	286 347	12	286 347	286 347	286 347	9
3	moving contact	256 922	256 922	256 922	12	256 922	256 922	256 922	9
△	contact screw	103 184	103 184	103 184	12	103 184	103 184	103 184	9
4	contact spring for one contact	255 726	279 415	279 415	4	279 415	279 415	279 415	3
5	contact spring for two contacts	247 447	247 447	247 447	4	247 447	247 447	247 447	3
6	contact spring end	279 414	279 414	279 414	16	279 414	279 414	279 414	12
7	contact spring rod for one contact	279 412	279 412	279 412	4	279 412	279 412	279 412	3
8	contact spring rod for two contacts	279 413	279 413	279 413	4	279 413	279 413	279 413	3
△	connection strap—inner contacts	1502 056	1502 058	1502 057	1	1502 057	1502 059	1502 060	1
△	round shunt	247 449	247 449	247 449	2	247 449	247 449	247 449	2
△	gear	275 467	275 467	275 467	1	275 467	275 467	275 467	1
9	front stationary contact assembly with shaft	275 488	275 505	275 521	1	275 487	275 504	275 520	1
△	shaft with insulation	275 471	275 434	275 444	1	275 471	275 434	275 444	1
△	contact support	253 127	253 127	253 127	8	253 127	253 127	253 127	6
3	stationary contact	256 922	256 922	256 922	8	256 922	256 922	256 922	6
△	contact screw	292 374	292 374	292 374	8	292 374	292 374	292 374	6
10	rear stationary contact assembly with shaft	275 490	275 507	275 523	1	275 489	275 506	275 522	1
△	shaft with insulation	275 471	275 434	275 444	1	275 471	275 434	275 444	1
△	contact support	253 127	253 127	253 127	4	253 127	253 127	253 127	3
3	stationary contact	256 922	256 922	256 922	4	256 922	256 922	256 922	3
△	contact screw	292 374	292 374	292 374	4	292 374	292 374	292 374	3
△	terminal clamp	247 421	247 421	247 421	2	247 421	247 421	247 421	2
11	motor terminal bar	275 482	275 499	275 514	1	275 481	275 498	275 513	1
△	terminal clamp	275 457	275 457	275 457	4	275 457	275 457	275 457	3
12	line terminal bar	356 038	356 040	356 042	1	356 037	356 039	356 041	1
△	terminal clamp	275 458	275 458	275 458	4	275 458	275 458	275 458	3
△	shunt from moving contacts to line terminal bar	320 928	320 928	320 928	4	320 928	320 928	320 928	3
△	return lever	247 422	247 422	247 422	2	247 422	247 422	247 422	2
13	return lever spring	247 450	247 450	247 450	1	247 450	247 450	247 450	1
14	handle	273 204	273 204	273 204	1	273 204	273 204	273 204	1
△	safety catch	355 463	355 463	355 463	1	355 463	355 463	355 463	1
15	bearing	247 418	247 418	247 418	1	247 418	247 418	247 418	1
16	bushing for open wiring	249 525	249 525	249 523	2	249 525	249 525	249 523	2
17	arc shield	275 480	275 497	275 512	1	275 479	275 496	275 511	1
18	complete overload relay with panel	□	□	□	1	□	□	□	1
19	overload relay moving contact on block	197 383	197 383	197 383	1	197 383	197 383	197 383	1
20	overload relay moving contact	266 584	266 584	266 584	1	266 584	266 584	266 584	1
△	block	187 250	187 250	187 250	1	187 250	187 250	187 250	1
21	overload relay stationary contact	763 626	763 626	763 626	2	763 626	763 626	763 626	2
22	overload relay resetting spring	194 510	194 510	194 510	1	194 510	194 510	194 510	1
23	overload relay coil	□	□	□	2	□	□	□	2
△	can of dash pot oil for relay	229 296	229 296	229 296	1	229 296	229 296	229 296	1
24-25	low voltage release without operating coil—25 cycle	1499 830	1499 825	1499 826	1	1499 830	1499 825	1499 826	1
24-25	low voltage release without operating coil—50/60 cycle	63 613	63 613	63 613	1	63 613	63 613	63 613	1
26	low voltage release hinge pin	256 246	256 246	256 246	1	256 246	256 246	256 246	1
△	shading coil for low voltage release—25 cycle	152 692	152 692	152 692	1	152 692	152 692	152 692	1
△	shading coil for low voltage release—50/60 cycle	□	□	□	1	□	□	□	1
27	low voltage release coil	□	□	□	1	□	□	□	1
28	auto-transformer	□	□	□	1	□	□	□	1
29	voltage transformer	□	□	□	1	□	□	□	1

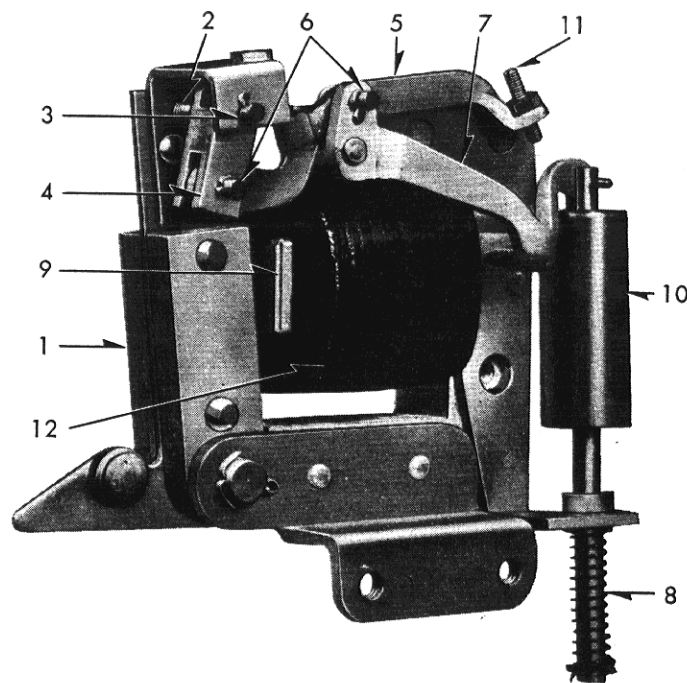
parts indented are included in the part under which they are indented.
 △ not illustrated. □ see pages 2 to 12.

application

This mechanism may be applied to any type A auto-starter except the no. 1 frame. It is to be used in place of the standard low-voltage relay when a short time delay on low-voltage or voltage interruption is desired.

operating coils

style number of coil	starter voltage	frequency
261 657	110	25
261 656	110	60
261 659	220	25
261 657	220	60
261 660	440	25
261 661	550	25
261 659	550	60
261 657	2200	25
261 656	2200	60



renewal parts for low voltage mechanism

ref. no.	description of part	style number of part	no. used
	low voltage mechanism complete—60 cycle.....	805 882-D	1
	low voltage mechanism complete—25 cycle.....	805 883-D	1
1	moving armature.....	832 293	1
2	moving armature spring.....	832 294	1
3	moving armature spring hinge pin.....	832 295	1
4	moving armature link.....	832 296	1
5	moving armature lever.....	832 300	1
6	moving armature lever hinge pin.....	832 297	2
7	dash pot trip lever.....	832 301	1
8	plunger spring.....	675 744	1
9	shading coil—60 cycle.....	152 692	1
9	shading coil—25 cycle.....	256 246	1
10	dash pot and plunger.....	844 100	1
11	adjusting screw.....	60 945	1
12	operating coil.....	□	1

☐ when ordering coil give the identification number stamped on coil. For coils commonly used see table above.