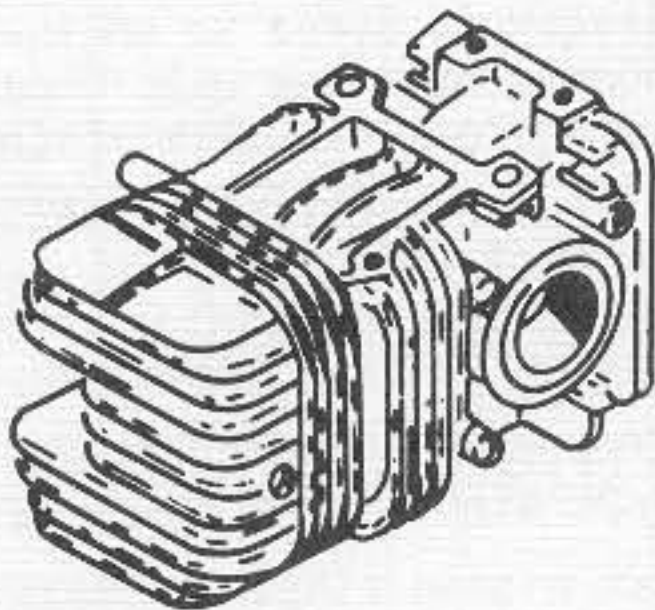




PARTS LIST

Cylinders, Piston Assemblies and Ring Sets used in

McCulloch Chain Saw & Kart Engines

FOREWORD

This parts list provides part numbers for replacement Cylinder Assemblies, standard and oversize piston Assemblies and Ring Sets for all McCulloch Chain Saws and Kart Engines. The manufacturing dimensions of the cylinders and piston assemblies are included in the list.

MODELS

3-25	99	380	PRO 10-10	MC 6
47	1-41	380A	Super LG-2A	MC 7
33	1-42	440	LG-6A Models	MC 10
33B	1-43	450	Power Mac 6, 6A	MC 20
35	1-51	550	Mini Mac 1, 1A	MC 30
MAC 35	1-61	Super 550	Mini Mac 6, 6A	MC 8
MAC 35A	1-62	640	Mini Mac 25, 30	MC 9
S-33	1-63	650	Mini Mac 35, 35AS	MC 40
4-30	1-71	660	Super Pro 40	MC 45
4-30A	1-81	740	Pro Mac 55	MC 45D
49	1-81HD	740L	Pro Mac 60	MC 49
39	1-52	840	Pro Mac 105	MC 49C, E, M/C
D-44	1-53	790	7-10A	MC 70
55	1-72	795	Super 250	MC 75
S-44	1-82	795L	G-70	MC 100
S-55	1-92	797	CP 125	MC 90
5-49	1-93	797L	CP 125S	MC 91
7-55	1-45	Super 797	CP 55	MC 91A, B, C, M/C
S-44A	1-46	890	CP 70	MC 101
S-55A	250	895	SP 60	MC 49C
1-70	200	895C	SP 70	MC 49E
1-80	1-75	940	SP 80, 81, 81E	MC 93
1-40	1-85	MAC 1-10	SP 105	MC 91B
D-30	1-76	MAC 2-10	SP 125	MC 91B/1
1-50	1-76L	MAC 3-10	SP 125C	MC 91C
1-60	1-86	MAC 4-10	170 Welder	MC 101A, B, C, D
D-36	BP-1	MAC 5-10 Models	MC 1	MC 101AA
73	MAC 15	MAC 6-10 Models	MC 2	MC 101M/C
77	300	MAC 10-10 Models	MC 5	



McCULLOCH CORPORATION

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Many of the McCulloch chain saws and kart engines, having given long and satisfactory service, are now being rebored, honed and fitted with an oversize piston and rings. This is especially true concerning the earlier chain saw and kart engine models. Installation of oversize piston and rings in a rebored cylinder will restore much of the engine's original power, provide a longer working life and in many cases eliminate other costly repairs.

Principal conditions which should govern the decision to rebore and re-ring are ...

- ... If taper or out-of-round condition exceeds 0.005 inch.
- ... If cylinder is scored, scratched, pitted or scuffed.
- ... If ports are pounded.
- ... If new rings won't seal and engine lacks power (even though taper is less than 0.005").
- ... If piston-to-cylinder clearance exceeds the high limit by 0.005 inch (0.007 inch in kart engines).

When reboring cylinders, the oversize dimensions should be measured in even steps of 0.010 inch (0.010, 0.020, 0.030 inch) over the standard bore diameter of new engines. If the correct oversize dimension is not held, possible interference or a tight fit will exist between the piston and the cylinder wall. In chain saw engines the piston-to-cylinder clearance is 0.0025 to 0.005 inch. In kart engines, because of higher temperatures resulting from high speed running, it is desirable to have the greater piston-to-cylinder clearance of 0.005 to 0.007 inch. This is particularly true when thin ring pistons are used.

When reboring and/or honing requires the removal of more than 0.010 inch of metal (but less than 0.020 inch) from the cylinder to remove scuff or other marks, it will be necessary to continue the boring and honing operation until the 0.020-inch oversize is reached. Having done this, .020-inch oversize pistons and rings must be used. In a like manner, if more than 0.020 inch of metal is removed to clean up the cylinder marks, the cylinder will have

to be bored and honed for 0.030-inch oversize piston and rings. If the cylinder is bored to an in-between size, the correct piston-to-cylinder wall clearance cannot be obtained with a stock oversize piston.

Maximum taper or out-of-round permitted after reboring or rehoning is 0.0007 inch. (Engines can be operated until taper has increased to 0.005 inch before reboring or rehoning will be necessary.)

Dimensional tolerance factor for the cylinders is 0.001 inch and is incorporated in the chart data.

Correct end gap for cast piston rings in chain saw engines is 0.004 to 0.012 inch. In chain saw and kart engines using chrome plated steel rings and pistons with an 0.047 inch ring locating pin, the end gap is 0.051 to 0.097 inch. End gap may be checked by pushing a ring halfway down in a new or rebored cylinder and using a feeler gauge to measure the gap between the ring ends.

To improve piston balance and reduce vibration, service replacement pistons with extended piston pin bosses are available for the late model chain saw engines. The use of an extended boss piston eliminates the need for thrust washers between the piston pin bosses and the connecting rod. Some of the extended boss pistons can also be used for service replacement in early model chain saw engines. On some models it will be necessary to replace the connecting rod with one having a different width at its pin end when an extended boss piston is installed. A different length piston pin will be required in these cases.

As a guide, a chart of dimensions, sizes, and part numbers of pistons and piston rings for McCulloch engines has been compiled with a separate column in the chart listing the extended boss pistons by engine model and the piston assembly they replace. This chart will be found in the following pages.

NOTE

TO CHANGE THE DIMENSION GIVEN IN THIS BULLETIN AND CHART TO THEIR METRIC EQUIVALENTS, MULTIPLY THE DIMENSIONS GIVEN BY THE FACTOR OF 25.4 TO OBTAIN MILLIMETERS; TO CHANGE THEM TO CENTIMETERS USE THE FACTOR OF 2.54.

MODEL	SIZE AND OVERSIZE	PISTON ASSEMBLY (THRUST WASHERS USED)	PISTON ASSEMBLY (THRUST WASHERS NOT USED)	PISTON TOP DIMENSION	PISTON SKIRT DIMENSION	CYLINDER ASSEMBLY NUMBER	CYLINDER DIMENSION	RING SET
3-25 47	Standard 0.010 0.020 0.030	19931A* 19910C 19920C* 19907B*		1.9912/1.9907 2.0012/2.0007 2.0112/2.0107 2.0212/2.0207	1.9953/1.9948 2.0053/2.0048 2.0153/2.0148 2.0253/2.0248			51747* 51748* 51749* 51750*
3-25 47	Standard 0.010 0.020 0.030	Obsolete			3-Ring Sets -- for use with early type pistons			47253* 47254* 47255* 47256*
33 33B 35 MAC 35 MAC 35A	Standard 0.010 0.020 0.030	52379* 52380* 52382* 52384*		1.7475/1.7470 1.7575/1.7570 1.7675/1.7670 1.7775/1.7770	1.7495/1.7490 1.7595/1.7590 1.7695/1.7690 1.7795/1.7790	62377*	1.7535/1.7525	52046 52047* 52048* 52049*
S-33	Standard 0.010 0.020 0.030	36616C* 36664C* 36665C*		1.7475/1.7470 1.7675/1.7670 1.7775/1.7770	1.7495/1.7490 1.7695/1.7690 1.7795/1.7790			52046 52047* 52048* 52049*
4-30 4-30A 49	Standard 0.010 0.020 0.030	Obsolete						28886* 28887* 28888* 28889*
39	Standard 0.010 0.020 0.030	52045* 52052* 52053*		1.7475/1.7470 1.7675/1.7670 1.7775/1.7770	1.7495/1.7490 1.7695/1.7690 1.7795/1.7790			52046 52047* 52048* 52049*
D-44 55	Standard 0.010 0.020 0.030	51210B* 51451B* 51452B* 51453B*		1.9955/1.9950 2.0055/2.0050 2.0155/2.0150 2.0255/2.0250	1.9975/1.9970 2.0075/2.0070 2.0175/2.0170 2.0275/2.0270	55443*	2.0010/2.0000	51747* 51748* 51749* 51750*
S-44 S-55	Standard 0.010 0.020 0.030	55007A* 55057A* 55058A* 55059A*	53936* 53937* 53938* 53939*	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	55441*	2.1260/2.1250	55123 55124* 55125 55126
5-49	Standard 0.010 0.020 0.030	Obsolete						38043*
7-55	Standard 0.010 0.020 0.030	Obsolete				24023A*	2.5035/2.5025	28809* 28810* 28811* 28812*
S-44A S-55A 1-70 1-80	Standard 0.010 0.020 0.030	55310A* 55322A* 55323A* 55324A*	53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	55438A*	2.1260/2.1250	55123 55124* 55125 55126
1-40 D-30	Standard 0.020	50206 50134*		2.1190/2.1185 2.1390/2.1385	2.1220/2.1215 2.1420/2.1415	50737*	2.1260/2.1250	55123 55124* 55125 55126
1-50 1-60 D-36	Standard 0.010 0.020 0.030	55007A* 55057A* 55058A* 55059A*	53936* 53937* 53938* 53939*	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	50737*	2.1260/2.1250	55123 55124* 55125 55126
73 77	Standard 0.010 0.020 0.030	Obsolete				28779*	2.5035/2.5025	28809* 28810* 28811* 28812*

*No longer available from factory, but may be available in Distributor stock.

MODEL	SIZE AND OVERSIZE	PISTON ASSEMBLY (THRUST WASHERS USED)	PISTON ASSEMBLY (THRUST WASHERS NOT USED)	PISTON TOP DIMENSION	PISTON SKIRT DIMENSION	CYLINDER ASSEMBLY NUMBER	CYLINDER DIMENSION	RING SET
99	Standard 0.010 0.020 0.030	24754A* 24684B* 24687B*		2.4924/2.4919 2.5124/2.5119 2.5224/2.5219	2.4970/2.4965 2.5170/2.5165 2.5270/2.5265			28809* 28810* 28811* 28812*
1-41 1-42 1-43	Standard 0.010 0.020 0.030	50206 50134*		2.1190/2.1185 2.1390/2.1385	2.1220/2.1215 2.1420/2.1415	61911*	2.1260/2.1250	55123 55125
1-51 1-61 1-62 1-63	Standard 0.010 0.020 0.030	55007A* 55057A* 55058A* 55059A*	53936* 53937* 53938* 53939*	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	61911*	2.1260/2.1250	55123 55124* 55125 55126
1-71 1-81	Standard 0.010 0.020 0.030	55310A* 55322A* 55323A* 55324A*	53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	55557*	2.1260/2.1250	55123 55124* 55125 55126
1-81HD (Thin Rings)	Standard 0.010 0.020 0.030	48695* 48684* 48685* 48686*	53927 53924 53925 53926	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1214 2.1320/2.1314 2.1420/2.1414 2.1520/2.1514	55557*	2.1260/2.1250	48691 48692 48693 48694
1-52 1-53	Standard 0.010 0.020 0.030	55310A* 55322A* 55323A* 55324A*	53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	53563A*	2.1260/2.1250	55123 55124* 55125 55126
1-72 1-82	Standard 0.010 0.020 0.030	48695* 48684* 48685* 48686*	53927 53924 53925 53926	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1214 2.1320/2.1314 2.1420/2.1414 2.1520/2.1514	57894*	2.1260/2.1250	48691 48692 48693 48694
1-92 1-93	Standard 0.010 0.020 0.030	58356* 58390* 58355* 58391*	62877* 62878 62879 62880	2.2115/2.2109 2.2215/2.2209 2.2315/2.2309 2.2415/2.2409	2.2145/2.2139 2.2245/2.2239 2.2345/2.2339 2.2445/2.2439	58551A*	2.2190/2.2180	58353 58394* 58354* 58395
1-45 1-46 250 (before S/N 39000)	Standard 0.010 0.020 0.030	48695* 48684* 48685* 48686*	53927 53924 53925 53926	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1214 2.1320/2.1314 2.1420/2.1414 2.1520/2.1514	61911*	2.1260/2.1250	48691 48692 48693 48694
200 250 (S/N 39001- up)	Standard 0.010 0.020 0.030		53941A 53942A* 53943A 53944A			61911*		55123 55124* 55125 55126
1-75 1-85	Standard 0.010 0.020 0.030	48904A* 48927* 48928* 48929*		2.1170/2.1164 2.1270/2.1264 2.1370/2.1364 2.1470/2.1464	2.1200/2.1194 2.1300/2.1294 2.1400/2.1394 2.1500/2.1494	57962*	2.1240/2.1230	48691 48692 48693 48694
1-76 1-76L 1-86	Standard 0.010 0.020 0.030	59582* 59583* 59584* 59585*	53726* 53727* 53728* 53729*	2.1570/2.1564 2.1670/2.1664 2.1770/2.1764 2.1870/2.1864	2.1600/2.1594 2.1700/2.1694 2.1800/2.1794 2.1900/2.1894	59564*	2.1640/2.1630	48978* 48934* 59587* 59586*
1-76 1-86	Standard 0.010 0.020 0.030	58878A* 58882A* 58886A* 58890A*	0.062 in. Wide Ring Grooves				0.062 in. Wide Rings	58881 58885* 58889* 58893*
BP-1 (Power Piston) Early	Standard 0.010 0.020 0.030			Obsolete				

*No longer available from factory, but may be available in Distributor stock.

MODEL	SIZE AND OVERSIZE	PISTON ASSEMBLY (THRUST WASHERS USED)	PISTON ASSEMBLY (THRUST WASHERS NOT USED)	PISTON TOP DIMENSION	PISTON SKIRT DIMENSION	CYLINDER ASSEMBLY NUMBER	CYLINDER DIMENSION	RING SET
BP-1 (Pinned Rings)	Standard 0.010	59501A* 59086A*		1.7440/1.7435 1.7540/1.7535	1.7470/1.7465 1.7570/1.7565	59676* (Two Parts)	1.7510/1.7500	59643*
BP-1 (Balance Piston)	Standard No Oversize	59043*		1.1435/1.1430	Same	59677* (Removable Sleeve)	1.1460/1.1450	No Rings
MAC 15	Standard 0.020	50206 50134*		2.1190/2.1185 2.1390/2.1385	2.1220/2.1215 2.1420/2.1415	52886A*	2.1260/2.1250	55123 55125
200	Standard 0.010 0.020 0.030		50206 50134*	2.1190/2.1185 2.1390/2.1385	2.1220/2.1215 2.1420/2.1415	61911*	2.1260/2.1250	55123 55124* 55125 55126
300 380 380A 440	Standard 0.010 0.020 0.030		53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	53563A*	2.1260/2.1250	55123 55124* 55125 55126
450	Standard 0.010 0.020 0.030		61428* 61426* 61427*	2.1570/2.1564 2.1770/2.1764 2.1870/2.1864	2.1600/2.1594 2.1800/2.1794 2.1900/2.1894	61406*	2.1640/2.1630	58881 58885* 58889* 58893*
550	Standard 0.010 0.020 0.030		58878A* 58886A* 58890A*	2.1570/2.1564 2.1770/2.1764 2.1870/2.1864	2.1600/2.1594 2.1800/2.1794 2.1900/2.1894	68259*	2.1640/2.1630	58881 58885* 58889* 58893*
640 (to Ser.No. 21,859)	Standard 0.010 0.020 0.030		53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	61911*	2.1260/2.1250	55123 55124* 55125 55126
640 (Ser.No. 21,859 and up)	Standard 0.010 0.020 0.030		53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	68633*	2.126/2.125	55123 55124* 55125 55126
650 660	Standard 0.010 0.020 0.030		53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	68260*	2.126/2.125	55123 55124* 55125 55126
740 840 (Thick Rings)	Standard 0.010 0.020 0.030		58878A* 58882A* 58886A* 58890A*	2.1570/2.1564 2.1670/2.1664 2.1770/2.1764 2.1870/2.1864	2.1600/2.1594 2.1700/2.1694 2.1800/2.1794 2.1900/2.1894	59564*	2.1640/2.1630	58881 58885* 58889* 58893*
740 740L* 840 (Thin Rings)	Standard 0.010 0.020 0.030		53726* 53727* 53728* 53729*	2.1570/2.1564 2.1670/2.1664 2.1770/2.1764 2.1870/2.1864	2.1600/2.1594 2.1700/2.1694 2.1800/2.1794 2.1900/2.1894	59564*	2.1640/2.1630	48978 48934* 59587* 59586*
790 890	Standard 0.010 0.020 0.030 Standard 0.030		62877* 62878 62879 62880 62883* 62884*	2.2115/2.2109 2.2215/2.2209 2.2315/2.2309 2.2415/2.2409 2.2115/2.2109 2.2415/2.2409	2.2145/2.2139 2.2245/2.2239 2.2345/2.2339 2.2445/2.2439 2.2145/2.2139 2.2445/2.2439	61209A*	2.2190/2.2180	58353 58394 58354 58395 62422 62423
795 795L 895	Standard 0.010 0.020 0.030 Standard 0.030		62877 62878 62879 62880 62883* 62884*	2.2115/2.2109 2.2215/2.2209 2.2315/2.2309 2.2415/2.2409 2.2115/2.2109 2.2415/2.2409	2.2145/2.2139 2.2245/2.2239 2.2345/2.2339 2.2445/2.2439 2.2145/2.2139 2.2445/2.2439	87273	2.219/2.218	58353 58394* 58354* 58395 62422 62423
895C	Standard		89251	2.2435/2.2425	2.2470/2.2460	89265	2.2510/2.2495	89250

*No longer available from factory, but may be available in Distributor stock.

MODEL	SIZE AND OVERSIZE	PISTON ASSEMBLY (THRUST WASHERS USED)	PISTON ASSEMBLY (THRUST WASHERS NOT USED)	PISTON TOP DIMENSION	PISTON SKIRT DIMENSION	CYLINDER ASSEMBLY NUMBER	CYLINDER DIMENSION	RING SET
Power Mac 6,6A	Standard		68098	1.4330/1.4325	1.4355/1.4350	83454A	1.4388/1.4375	68096
SP 40	Standard		91704	1.5590/1.5580	1.5610/1.5600	93764	1.5640/1.5625	91703
PM 55	Standard		89783A	1.8072/1.8067	1.8100/1.8095	89435B	1.8135/1.8120	92517
PM 60	Standard		87713	1.8705/1.8700	1.8724/1.8719	87715	1.8760/1.8745	87716
MAC 7-10A	Standard 0.020 0.030		85239 69031 69032	1.9940/1.9935 2.0140/2.0130 2.0240/2.0230	1.9963/1.9958 2.0163/2.0153 2.0263/2.0253	87681A	1.9995/1.9980	87166 63291 62292
7-10A	Standard		85239	1.9940/1.9935	1.9963/1.9958	89711B	1.9995/1.9980	89732
S-250	Standard 0.010 0.020 0.030		53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1380 2.1490/2.1480	2.1220/2.1213 2.1320/2.1310 2.1420/2.1410 2.1520/2.1510	83830	2.1260/2.1250	55123 55124 55125 55126
G-70	Standard		85239	1.9940/1.9935	1.9963/1.9958	85871	1.9995/1.9980	85241
CP 125	Standard 0.010 0.020 0.030	69301 69302 69303 69304		2.2730/2.2720 2.2830/2.2820 2.2930/2.2920 2.3030/2.3020	2.2755/2.2745 2.2855/2.2845 2.2955/2.2945 2.3055/2.3045	84071	2.2805/2.2795	47865 66048 66047 66045
CP 125S	Standard 0.010 0.020 0.030	69241 69242 69243 69244		2.2730/2.2720 2.2830/2.2820 2.2930/2.2920 2.3030/2.3020	2.2755/2.2745 2.2855/2.2845 2.2955/2.2945 2.3055/2.3045	84071	2.2805/2.2795	69305 69306 69307 69308
CP 55	Standard		69212	1.7440/1.7435	1.7465/1.7460	83221	1.7510/1.7500	62814
CP 70 Prefix 11-,12-	Standard 0.020 0.030		85239 69031 69032	1.9940/1.9930 2.0140/2.0130 2.0240/2.0230	1.9963/1.9953 2.0163/2.0153 2.0263/2.0253	N.A.	1.9995/1.9983	85241 63291 63292
CP 70 Prefix 13-	Standard		85239	1.9940/1.9935	1.9963/1.9953	87185	1.9995/1.9980	85241
SP 60	Standard		87713	1.8705/1.8700	1.8724/1.8719	87737	1.8795/1.8785	87716
SP 70	Standard		85239	1.9940/1.9935	1.9963/1.9958	87768	1.9995/1.9980	89732
SP 80 Prefix 11-,12-, 13-	Standard		87791	2.0585/2.0580	2.0604/2.0599	87296	2.0640/2.0625	85245
SP 80 Prefix 14-	Standard		87791	2.0585/2.0580	2.0604/2.0599	87296	2.0640/2.0625	87854
SP 81 SP 81E	Standard		92518 ("A") 92519 ("B") 92520 ("C")	2.0573/2.0566 2.0581/2.0574 2.0590/2.0582	2.0601/2.0594 2.0609/2.0602 2.0618/2.0610	92450D ("A")** ("B")** ("C")**	2.0625/2.0632 2.0633/2.0640 2.0641/2.0649	87854 87854 87854
SP 105	Standard		89251	2.2435/2.2425	2.2470/2.2460	89265	2.2510/2.2495	89258
PM 105	Standard		89251	2.2435/2.2425	2.2470/2.2460	89265	2.2510/2.2495	89250
SP 125	Standard 0.010 0.020 0.030	85539 85540 85541 85542		2.2730/2.2720 2.2830/2.2820 2.2930/2.2920 2.3030/2.3020	2.2755/2.2745 2.2855/2.2845 2.2955/2.2945 2.3055/2.3045	85145	2.2805/2.2795	85608 85609 85610 85611
SP 125C	Standard	85539		2.2730/2.2720	2.2755/2.2745	91110	2.2790/2.2780	85608

*No longer available from factory, but may be available in Distributor stock.

**Pistons marked "A", "B" or "C" must be used with cylinders marked with corresponding identifying letters. Cylinders with no identifying letter must use pistons stamped "B".

MODEL	SIZE AND OVERSIZE	PISTON ASSEMBLY (THRUST WASHERS USED)	PISTON ASSEMBLY (THRUST WASHERS NOT USED)	PISTON TOP DIMENSION	PISTON SKIRT DIMENSION	CYLINDER ASSEMBLY NUMBER	CYLINDER DIMENSION	RING SET
170 Welder	Standard 0.010 0.020 0.030		62872 62873 62888 62889	2.2115/2.2109 2.2215/2.2209 2.2315/2.2309 2.2415/2.2409	2.2145/2.2139 2.2245/2.2239 2.2345/2.2339 2.2445/2.2439	84300	2.2200/2.2190	58699A* 58831* 47825* 47826*
MC-1	Standard							48691
MC-2	Standard 0.010	59582* 59583*	53726* 53727*	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694			48978* 48934*
MC-5 (Wide Rings)	Standard 0.010 0.020 0.030	55007A 55057A* 55058A* 55059A*	53936* 53937* 53938 53939*	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	48701*	2.1260/2.1250	55123 55124* 55125 55126
MC-5 MC-6 (Thin Rings)	Standard 0.010 0.020 0.030	48844* 48845* 48846* 48847*		2.1170/2.1165 2.1270/2.1265 2.1370/2.1365 2.1470/2.1465	2.1200/2.1195 2.1300/2.1295 2.1400/2.1395 2.1500/2.1495	48701*	2.1260/2.1250	48691 48692 48693 48694
MC-7	Standard 0.010	59582* 59583*	53726* 53727*	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694	48993B*	2.1660/2.1650	48978* 48934*
MC-10 (Wide Rings)	Standard 0.010 0.020 0.030	55310A* 55322A* 55323A* 55324A*	53941A 53942A* 53943A 53944A	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1213 2.1320/2.1313 2.1420/2.1413 2.1520/2.1513	48612A*	2.1260/2.1250	55123 55124* 55125 55126
MC-10 (Thin Rings)	Standard 0.010 0.020 0.030	48844* 48845* 48846* 48847*		2.1170/2.1165 2.1270/2.1265 2.1370/2.1365 2.1470/2.1465	2.1200/2.1195 2.1300/2.1295 2.1400/2.1395 2.1500/2.1495	48612A*	2.1260/2.1250	48691 48692 48693 48694
MC-10 (Power Kit)	Standard 0.010 0.020 0.030	48832* 48833* 48834*		2.1170/2.1165 2.1270/2.1265 2.1370/2.1365	2.1200/2.1195 2.1300/2.1295 2.1400/2.1395	48612A*	2.1260/2.1250	48691 48692 48693 48694
MC-20	Standard 0.010 0.020 0.030 0.040 0.050	48695* 48684* 48685* 48686* 59582* 59583*	53927 53924 53925 53926 53726* 53727*	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484 2.1570/2.1564 2.1670/2.1664	2.1220/2.1214 2.1320/2.1314 2.1420/2.1414 2.1520/2.1514 2.1600/2.1594 2.1700/2.1694	48871*	2.1260/2.1250	48691 48692 48693 48694 48978* 48934*
MC-30	Standard 0.010	59582* 59583*	53726* 53727*	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694	48992*	2.1660/2.1650	48978* 48934*
MC-8	Standard 0.010		53726* 53727*	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694	48993B*	2.1660/2.1650	48978* 48934*
MC-9	Standard 0.010		53726* 53727*	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694	48993B*	2.1660/2.1650	48978* 48934*
MC-40	Standard 0.010		47765* 47766*	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694	47749*	2.1660/2.1650	47767 47768
MC-45 MC-45D	Standard 0.010		47765* 47766*	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694	47878*	2.1600/2.1650	47767 47768
MC-49	Standard 0.020		50206 50134*	2.1190/2.1185 2.1390/2.1385	2.1220/2.1215 2.1420/2.1415	52886A*	2.1260/2.1250	55123 55125
MC-49C	Standard 0.010 0.020 0.030		53927 53924 53925 53926	2.1190/2.1184 2.1290/2.1284 2.1390/2.1384 2.1490/2.1484	2.1220/2.1214 2.1320/2.1314 2.1420/2.1414 2.1520/2.1514	62481	2.126/2.125	48691 48692 48693 48694
MC-70	Standard 0.010 0.020 0.030		47813* 47814* 47829* 47830*	2.2115/2.2109 2.2215/2.2209 2.2315/2.2309 2.2415/2.2409	2.2145/2.2139 2.2245/2.2239 2.2345/2.2339 2.2445/2.2439			58699A* 58831* 47825* 47826*

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MODEL	SIZE AND OVERSIZE	PISTON ASSEMBLY (THRUST WASHERS USED)	PISTON ASSEMBLY (THRUST WASHERS NOT USED)	PISTON TOP DIMENSION	PISTON SKIRT DIMENSION	CYLINDER ASSEMBLY NUMBER	CYLINDER DIMENSION	RING SET
MC-75 MC-100	Standard 0.010 0.020 0.030		47902* 47856* 47857* 47858*	2.2409/2.2402 2.2509/2.2504 2.2609/2.2604 2.2709/2.2704	2.2433/2.2427 2.2533/2.2527 2.2633/2.2627 2.2733/2.2727	47873B*	2.2505/2.2495	47826* 47863* 47864* 47865
MC-90	Standard 0.010		47765 47766	2.1570/2.1564 2.1670/2.1664	2.1600/2.1594 2.1700/2.1694	63909*	2.166/2.165	47767 47768
MC-91 10-	Standard 0.010		68898 68897	2.157/2.156 2.167/2.166	2.160/2.159 2.170/2.169	84325*	2.166/2.165	47767 47768
MC-91A 11-	Standard 0.010		68898 68897	2.157/2.156 2.167/2.166	2.160/2.159 2.170/2.169	84325*	2.166/2.165	47767 47768
MC-101	Standard 0.010 0.020 0.030		67089* 67091* 67092* 67093*	2.271/2.270 2.281/2.280 2.291/2.290 2.301/2.300	2.2735/2.2725 2.2835/2.2825 2.2935/2.2925 2.3035/2.3025	84534*	2.2805/2.2795	47865 66048 66047 66045
MC-101C	Standard 0.010 0.020 0.030 0.050		67089* 67091* 67092* 67093* 84476	2.2710/2.2700 2.2810/2.2800 2.2910/2.2900 2.3010/2.3000 2.3110/2.3100	2.2735/2.2725 2.2835/2.2825 2.2935/2.2925 2.3035/2.3025 2.3235/2.3225	84534*	2.2805/2.2795	47865 66048 66047 66045 69469
MC-49E	Standard 0.010 0.020 0.030		53927 53924 53925 53926	2.1190/2.1184 2.1290/2.1280 2.1390/2.1380 2.1490/2.1480	2.1220/2.1140 2.1320/2.1310 2.1420/2.1410 2.1520/2.1510	62481	2.1260/2.1250	48691 48692 48693 48694
MC-91B MC-91B/1	Standard 0.005 0.010 0.020 0.030		68898 68899 68897 87940 87938	2.1570/2.1560 2.1620/2.1610 2.1670/2.1660 2.1770/2.1760 2.1870/2.1860	2.1600/2.1590 2.1650/2.1640 2.1700/2.1690 2.1800/2.1790 2.1900/2.1890	87948A	2.1660/2.1650	47767 66790 47768 87935 87934
MC-91C	Standard 0.005 0.010 0.020 0.030		68898 68899 68897 87940 87938	2.1570/2.1560 2.1620/2.1610 2.1670/2.1660 2.1770/2.1760 2.1870/2.1860	2.1600/2.1590 2.1650/2.1640 2.1700/2.1690 2.1800/2.1790 2.1900/2.1890	87948A	2.1660/2.1650	47767 66790 47768 87935 87934
MC-93	Standard 0.005 0.010 0.020 0.030		68898 68899 68897 87940 87938	2.1570/2.1560 2.1620/2.1610 2.1670/2.1660 2.1770/2.1760 2.1870/2.1860	2.1600/2.1590 2.1650/2.1640 2.1700/2.1690 2.1800/2.1790 2.1900/2.1890	91040A	2.1660/2.1650	47767 66790 47768 87935 87934
MC-101A & 101AA	Standard 0.010 0.020 0.030 0.050		84469 84470 84473 84474 84476	2.2730/2.2720 2.2830/2.2820 2.2930/2.2920 2.3030/2.3020 2.3230/2.3220	2.2755/2.2745 2.2855/2.2845 2.2955/2.2945 2.3055/2.3045 2.3255/2.3245	84534	2.2805/2.2795	47865 66048 66047 66045 69469

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