

# CURTIS

## MASTERLINE CR-25 SERIES AIR COMPRESSORS

### MODEL **C98A** TWO STAGE

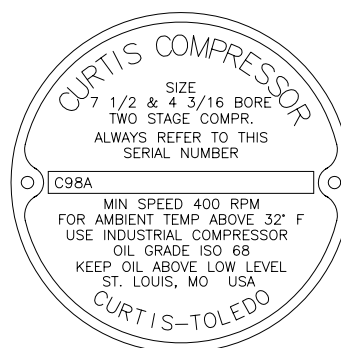
SIZE: 7-1/2" & 4-3/16" X 5"  
LOT NO. C98A01 & LATER

#### HOW TO ORDER PARTS

Give name and part number as shown in parts list and serial number. Serial number is on nameplate attached to crankcase of compressor. Refer to Master Parts Price List for prices.

#### IMPORTANT

Make a permanent record of the Model and Serial Numbers of your machine here. You'll save time and expense by including this reference identification on replacement parts orders.



### CURTIS-TOLEDO, INC.

1905 KIENLEN AVENUE, ST. LOUIS, MISSOURI 63133

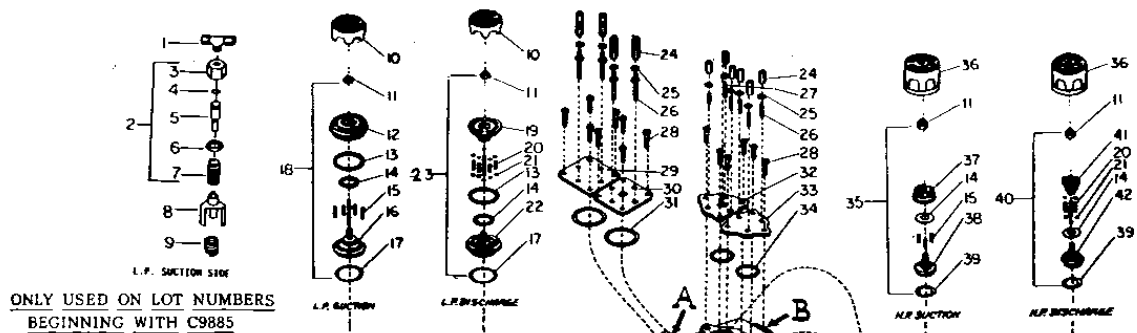
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*Sales representatives in principle cities.*

# PARTS LIST

# CURTIS PARTS LIST FOR COMPRESSOR MODEL C98A



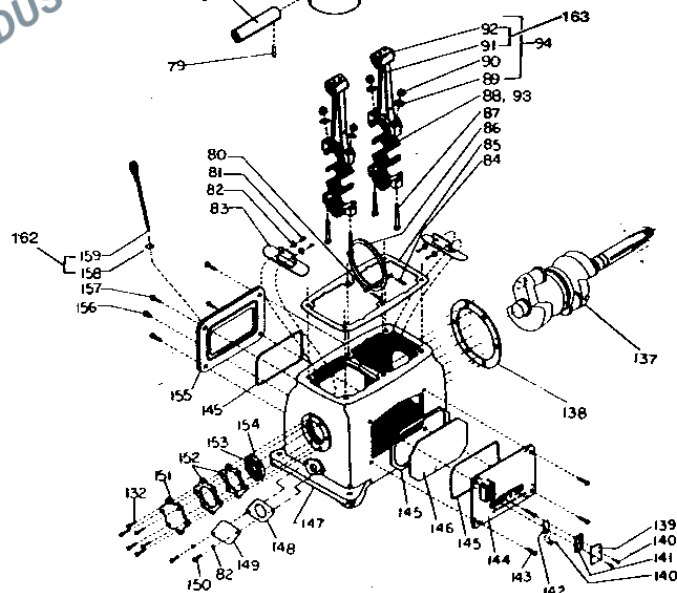
## NOTE:

THE FOLLOWING APPLIES TO C98CC COMPRESSORS  
USED ONLY ON CLIMATE CONTROL OUTFITS

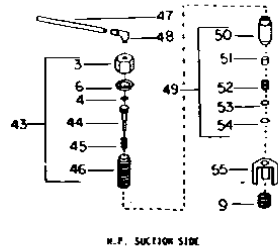
- A) ITEMS #105 & #107 (2) REQ'D EACH & DISREGARD ITEMS #104 & #106
- B) ITEM #123 (1) REQ'D & DISREGARD ITEM #124
- C) ITEM #125 (1) REQ'D & DISREGARD ITEM #126
- D) ITEM #127 (1) REQ'D & DISREGARD ITEM #128
- E) ITEM #165 (1) REQ'D & DISREGARD ITEM #129



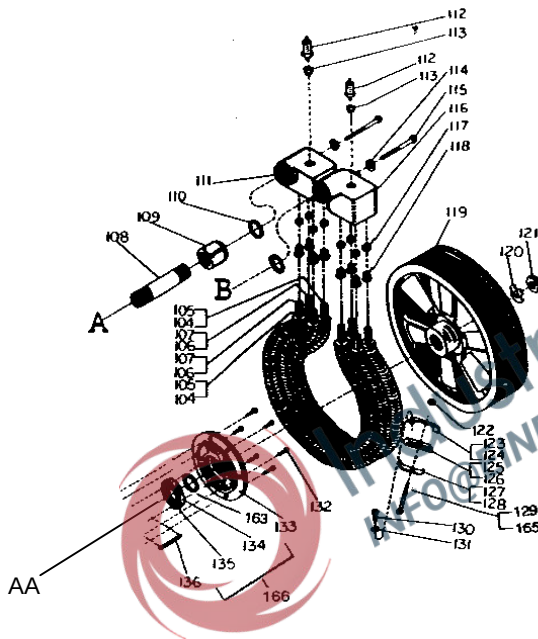
58 - GASKET SET  
164 - INTERCOOLER  
REPLACEMENT KIT  
FOR CLIMATE CONTROL



# CURTIS PARTS LIST FOR COMPRESSOR MODEL C98A



ONLY USED ON LOT NUMBERS  
BEGINNING WITH C9885



| COMPRESSOR REPLACEMENT PARTS |          |                                              |     |
|------------------------------|----------|----------------------------------------------|-----|
| Item                         | Part No. | Description                                  | Qty |
| 1                            | VA729    | Tee, Compression-1/4 x 3/4 x 1/4 MPT, Branch | 1   |
| 2                            | CBA959   | Assy. Unloader - LPSV                        | 1   |
| 3                            | CBA924   | Cap, Unloader Cylinder                       | 2   |
| 4                            | VB407    | "O" Ring 7/16 ID x 5/8 OD x 3/32             | 2   |
| 5                            | CBA960   | Piston, Unloader - LPSV                      | 1   |
| 6                            | CB6138   | Locknut, Hex 1/8                             | 2   |
| 7                            | CBA961   | Cylinder, Unloader-LPSV                      | 1   |
| 8                            | CBB931   | Assy. Fork Unloader                          | 1   |
| 9                            | CA299-48 | Spring, 1"OD x 1 3/8 Lg.                     | 2   |
| 10                           | CM627    | Spacer-LPV                                   | 2   |
| 11                           | VH20L    | Nut, Flex Loc, 7/16-20 NF                    | 4   |
| 12                           | CM636    | Seat, Valve, LPSV                            | 1   |
| 13                           | CM640    | Disc Valve-LPSV & LPDV                       | 2   |
| 14                           | CM641    | Disc Valve-LPV & HPV                         | 4   |
| 15                           | CA299-46 | Spring, LPSV & HPSV-3/8                      | 10  |
| 16                           | CM699    | Backstop with Stud, LPSV                     | 1   |
| 17                           | CDB1304  | Gasket, LPV                                  | 2   |

| COMPRESSOR REPLACEMENT PARTS |             |                                                              |     |
|------------------------------|-------------|--------------------------------------------------------------|-----|
| Item                         | Part No.    | Description                                                  | Qty |
| 18                           | CDB1317     | Assy, LPSV                                                   | 1   |
| 19                           | CMA642      | Backstop-LPDV                                                | 1   |
| 20                           | CMA647      | Spring-LPDV & HPDV                                           | 10  |
| 21                           | CMA646      | Button, Spring-LPDV & HPDV                                   | 20  |
| 22                           | CM697       | Seat, Valve with Stud - LPDV                                 | 1   |
| 23                           | CDB1318     | Assy - LPDV                                                  | 1   |
| 24                           | RK206-3     | Nut, Stud - HPV & LPV                                        | 14  |
| 25                           | VH1232      | Washer, Aluminum                                             | 14  |
| 26                           | VH09KP      | Screw, Hex Soc. Hd. Fl. Pt. 3/8 x 2" Lg                      | 11  |
| 27                           | VH09KN      | Screw, Hex Hollow. Hd. Fl. Pt. 3/8 x 1 3/4" Lg               | 3   |
| 28                           | VH12PL      | Screw, Cap Hex Hd. 1/2 x 1 3/8, Lg. Grade 5                  | 14  |
| 29                           | CM625       | Plate, Valve Cover - LPDV                                    | 1   |
| 30                           | CM623       | Plate, Valve Cover - LPSV                                    | 1   |
| 31                           | CM657       | Gasket, Valve Cover Plate LP                                 | 2   |
| 32                           | CM624       | Plate, Valve Cover-HPSV                                      | 1   |
| 33                           | CM626       | Plate, Valve Cover-HPDV                                      | 1   |
| 34                           | CM656       | Gasket, Valve Cover Plates HP                                | 2   |
| 35                           | CDB1319     | Assy., HPSV                                                  | 1   |
| 36                           | CMA730      | Spacer-HPSV & HPDV                                           | 2   |
| 37                           | CM638       | Seat, Valve-HPSV                                             | 1   |
| 38                           | CMA600      | Backstop, Valve with Stud-HPSV                               | 1   |
| 39                           | CDB1305     | Gasket, Aluminum, HPV                                        | 2   |
| 40                           | CDB1320     | Assy., HPDV                                                  | 1   |
| 41                           | CMA644      | Backstop-HPDV                                                | 1   |
| 42                           | CM698       | Seat, Valve with Stud-HPDV                                   | 1   |
| 43                           | CBB926      | Assy., Unloader Piston HPSV                                  | 1   |
| 44                           | CBA972      | Piston, Unloader-HPSV                                        | 1   |
| 45                           | CBA976      | Spring, HPSV 9/16OD x 1 7/16 Lg.                             | 1   |
| 46                           | CBB925      | Cylinder, Unloader-HPSV                                      | 1   |
| 47                           | CBB996      | Tube, Unloader 1/4 OD Copper                                 | 1   |
| 48                           | VA15BCE     | Elbow, 1/4MPT x 1/4                                          | 1   |
| 49                           | CBB921      | Assy., Buffer Unloader Overtravel                            | 1   |
| 50                           | CBB922      | Housing Buffer                                               | 1   |
| 51                           | CBB923      | Disc., Buffer 13/16 Lg.                                      | 1   |
| 52                           | CBB906      | Spring, Buffer 1/16 Thk.                                     | 1   |
| 53                           | CBB904A     | Disc. Buffer 1/16 Thk.                                       | 1   |
| 54                           | VH1809      | Ring, Retaining - Buffer                                     | 1   |
| 55                           | CBB920      | Fork, Unloader                                               | 1   |
| 56                           | CMA613      | Head, Cylinder                                               | 1   |
| 57                           | CDB1369     | Assy., Cylinder Head with APU                                | 1   |
| 58                           | CDB1327     | Gasket, Replacement Set                                      | 1   |
| 59                           | CMA652      | Stud-5/8 NC x 2 1/4 Lg.                                      | 9   |
| 60                           | CM660       | Gasket, Cylinder Head                                        | 1   |
| 61                           | CMA612      | Cylinder                                                     | 1   |
| 62                           | VH15R       | Nut, Hex 5/8 NC                                              | 9   |
| 63                           | VA1128      | Strainer-2"                                                  | 1   |
| 64                           | VH11TN      | Screw, Hex Head Cap-3/4 NC x 1 3/4                           | 6   |
| 65                           | CMA631      | Set, Piston Rings (Std) HP                                   | 1   |
| 66                           | CMA631-010  | Set, Piston Rings (.010 oversize) HP                         | 1   |
| 67                           | CMA631-030  | Set, Piston Rings (.030 oversize) HP                         | 1   |
| 68                           | CDB1313     | Piston (Std) LP                                              | 1   |
| 69                           | CDB1313-010 | Piston (.010 oversize) LP                                    | 1   |
| 70                           | CDB1313-030 | Piston (.030 oversize) LP                                    | 1   |
| 71                           | CDB1322     | LP Piston w/Rings and Pin (Std)                              | 1   |
| 72                           | CCC1353-010 | LP Piston w/Rings and Pin (.010 oversize)                    | 1   |
| 73                           | CCC1353-030 | LP Piston w/Rings and Pin (.030 oversize)                    | 1   |
| 74                           | CDB1324     | LP Piston w/Rings, Pin & Con, Rod (std piston & bearing set) | 1   |
| 75                           | CMA630      | Set, Piston Rings (Std) LP                                   | 1   |
| 76                           | CMA630-010  | Set, Piston Rings (.010 oversize) LP                         | 1   |
| 77                           | CMA630-030  | Set, Piston Rings (.030 oversize) LP                         | 1   |
| 78                           | CDB1315     | Pin, Piston LP                                               | 1   |
| 79                           | VH25MF      | Pin, Roll 3/8 x 3/4 Lg                                       | 1   |
| 80                           | CX2123      | Pin, Oil Ring Guide                                          | 1   |
| 81                           | VH01FC      | Screw, Machine Round Head 1/4 x 3/8                          | 4   |
| 82                           | VH35F       | Lockwasher, 1/4 Regular                                      | 6   |
| 83                           | CW236-5     | Assembly, Baffle                                             | 2   |
| 84                           | VH23DH      | Pin, Cotter 1/8 x 1                                          | 2   |
| 85                           | CX2162      | Gasket, Crankcase                                            | 1   |
| 86                           | CM679       | Ring, Oiling                                                 | 1   |
| 87                           | VH12NU      | Screw, Cap Hex Hd.-1/2 x 3 1/4 Lg., Grade 5                  | 4   |
| 88                           | CM606       | Bearing Set, Connecting Rod (Std)                            | 2   |

# CURTIS PARTS LIST FOR COMPRESSOR MODEL C98A

| COMPRESSOR REPLACEMENT PARTS |             |                                                                     |     |
|------------------------------|-------------|---------------------------------------------------------------------|-----|
| Item                         | Part No.    | Description                                                         | Qty |
| 89                           | VH35P       | Lockwasher, Split ½                                                 | 4   |
| 90                           | VH15N       | Nut, Hex ½-20 UNF                                                   | 4   |
| 91                           | CDB1300     | Connecting Rod, Machining                                           | 2   |
| 92                           | VD840       | Bearing, Needle Roller, Full Complement "Torrington" B-2416         | 4   |
| 93                           | CMA609      | Bearing Set, Connecting Rod (.001 Undersize Shaft)                  | 2   |
| 94                           | CDB1302     | Assembly-Connecting Rod Complete (with standard bearing halves)     | 2   |
| 95                           | CDB1325     | HP Piston w/Rings, Pin & Conn. Rod (Std. Piston & Bearing Set)      | 1   |
| 96                           | CDB1323     | High Pressure Piston w/Rings & Pin (standard)                       | 1   |
| 97                           | CDB1323-010 | High Pressure Piston w/Rings & Pin (.010 Oversize)                  | 1   |
| 98                           | CDB1323-030 | High Pressure Piston w/Rings & Pin (.030 Oversize)                  | 1   |
| 99                           | CDB1312     | Piston, HP (Std)                                                    | 1   |
| 100                          | CDB1312-010 | Piston, HP (.010 Oversize)                                          | 1   |
| 101                          | CDB1312-030 | Piston, HP (.030 Oversize)                                          | 1   |
| 102                          | VH1312      | Pin, roll ¼ x 1 1/16 Lg.                                            | 1   |
| 103                          | CDB1314     | Pin, Piston HP                                                      | 1   |
| 104                          | CMA633-B    | Intercooler, Inner (Finned Tube)                                    | 2   |
| 105                          | CMA858-B    | Intercooler, Inner(Non-Finned Tube) Used on Climate Control         | 2   |
| 106                          | CMA633-A    | Intercooler, Outer (Finned Tube)                                    | 2   |
| 107                          | CMA858-A    | Intercooler, Outer (Non-Finned Tube) Used on Climate Control        | 2   |
| 108                          | CM614       | Nipple, Pipe 2 x 8-7/8 Lg.                                          | 1   |
| 109                          | CM651       | Manifold Connection                                                 | 1   |
| 110                          | CM659       | Gasket, Intercooler Manifold                                        | 2   |
| 111                          | CM603       | Manifold, Intercooler                                               | 1   |
| 112                          | VV405       | Valve, Safety 1/4MPT 70 PSI                                         | 2   |
| 113                          | VA12DBP     | Bushing, ½ x ¼                                                      | 2   |
| 114                          | VH1231      | Washer, Aluminum .962 x .660 x .051 Thk.                            | 2   |
| 115                          | VH1658      | Screw, Cap Hex Hd. 5/8 x 6 ½ Lg, Grade 2                            | 2   |
| 116                          | CM602       | Manifold, Intercooler                                               | 1   |
| 117                          | CR226-5     | Sleeve, Compression-1"                                              | 8   |
| 118                          | CR226-6     | Nut, Compression-1"                                                 | 8   |
| 119                          | CMA632      | Flywheel                                                            | 1   |
| 120                          | CW222-1     | Lockwasher                                                          | 1   |
| 121                          | CX225-2     | Nut, Crankshaft                                                     | 1   |
| 122                          | VH20H       | Nut, Hex 5/16-18                                                    | 1   |
| 123                          | CMA859      | Clamp, Top-Intercooler (For Non-Finned Intercooler-Climate Control) | 1   |
| 124                          | CMA634      | Clamp, Top-Intercooler-Climate Control)                             | 1   |
| 125                          | CMA861      | Spacer, Intercooler (For Non-Finned Intercooler-Climate Control)    | 1   |
| 126                          | CMA635      | Spacer, Intercooler (For Finned Intercooler)                        | 1   |
| 127                          | CMA860      | Clamp, Bottom-Intercooler (For Finned Intercooler-Climate Control)  | 1   |
| 128                          | CMA636      | Clamp, Bottom-Intercooler (For Finned Intercooler)                  | 1   |
| 129                          | VH11HZ      | Screw, Cap-Hex Hd. 5/16 x 5 Lg, Grade 2                             | 1   |
| 130                          | VH11KF      | Screw, Cap-Hex Hd 3/8 x ¾ Lg., Grade 2                              | 1   |
| 131                          | VH35K       | Lockwasher, Split Medium-3/8                                        | 1   |
| 132                          | VH12PM      | Screw, Cap-Hex Hd. ½-13 x 1 ½ Lg., Grade 5                          | 12  |
| 133                          | CDB1437     | Large End Plate, Machining                                          | 1   |
| 134                          | VD824       | Cup, Roller Bearing                                                 | 1   |
| 135                          | VD825       | Cone, Roller Bearing                                                | 1   |
| 136                          | CMA665      | Key, Flywheel                                                       | 1   |
| 137                          | CMA657      | Crankshaft                                                          | 1   |
| 138                          | CX216-3     | Gasket, Large End Plate                                             | 1   |
| 139                          | CM663       | Cover, Breather                                                     | 1   |
| 140                          | VH01CC      | Screw, Machine-10-32 x 3/8 Lg.                                      | 4   |
| 141                          | CM665       | Gasket-Breather Cover                                               | 1   |
| 142                          | CM664       | Valve, Breather- Side Door                                          | 1   |
| 143                          | VH11KM      | Screw, Cap Hex Hd. -3/8 x 1 ½ Lg., Grade 2                          | 4   |
| 144                          | CMA618      | Door with Breather Port                                             | 1   |
| 145                          | CMA620      | Gasket, Side Door                                                   | 3   |
| 146                          | CMA619      | Baffle                                                              | 1   |
| 147                          | CDB1306     | Crankcase Machined & Assembled w/Plugs                              | 1   |
| 148                          | CA2312      | Gasket, Flange Cover Plate                                          | 1   |
| 149                          | CA2323      | Plate, Flange Cover                                                 | 1   |
| 150                          | VH12FD      | Screw, Cap Hex Hd. - ¼-20 x ½ Lg., Grade 5                          | 2   |
| 151                          | CM604       | Plate, Small End                                                    | 1   |
| 152                          | CMA602      | Set, Shim (Small End Plate)                                         | 1   |
| 153                          | VD823       | Cone, Roller Bearing                                                | 1   |
| 154                          | VD822       | Cup, Roller Bearing                                                 | 1   |

| COMPRESSOR REPLACEMENT PARTS |          |                                                           |     |
|------------------------------|----------|-----------------------------------------------------------|-----|
| Item                         | Part No. | Description                                               | Qty |
| 155                          | CDB1308  | Door, side, with Oil Filler & Dipstick Opening, Machining | 1   |
| 156                          | VA01ER   | Plug, Square Head Solid-3/4"                              | 1   |
| 157                          | VBH11KK  | Screw, Cap Hex Hd. 3/8 x 1 ¼ Lg., Grade 2                 | 4   |
| 158                          | VB416    | "O" Ring, 1-1/4 x 1 x 1/8 CS, Viton                       | 1   |
| 159                          | CDB1309  | Oil Fill Cap and Dipstick                                 | 1   |
| 160                          | CDB1301  | Connecting Rod w/Needle Bearings Assy.                    | 2   |
| 161                          | VA1129   | Element, Strainer                                         | 1   |
| 162                          | CDB1329  | Oil Cap/Dipstick w/"O" Ring Assembly                      | 1   |
| 163                          | VB312    | Oil Seal, CR-26177 "CR Industries", (Viton Lip)           | 1   |
| 164                          | CMA663   | Kit Intercooler Replacement for C98A Climate Control      | 1   |
| 165                          | VH11HV   | Screw, Cap-Hex Hd. 5/16 x 3-1/2 Lg., Grade 2              | 1   |
| 166                          | CDB1326  | Large End Plate, Assy.                                    | 1   |

| ASSEMBLIES – KITS - SETS |             |                                                                       |     |
|--------------------------|-------------|-----------------------------------------------------------------------|-----|
| Item                     | Part No.    | Description                                                           | Qty |
| 2                        | CBA959      | Assy. Unloader – LPSV                                                 | 1   |
| 18                       | CDB1317     | Assy, LPSV                                                            | 1   |
| 23                       | CDB1318     | Assy – LPDV                                                           | 1   |
| 35                       | CDB1319     | Assy., HPSV                                                           | 1   |
| 40                       | CDB1320     | Assy., HPDV                                                           | 1   |
| 43                       | CBB926      | Assy., Unloader Piston HPSV                                           | 1   |
| 49                       | CBB921      | Assy., Buffer Unloader Overtravel                                     | 1   |
| 57                       | CDB1369     | Assy., Cylinder Head with APU                                         | 1   |
| 58                       | CDB1327     | Assy., Cylinder Head without APU                                      | 1   |
| 65                       | CMA631      | Set, Piston Rings (Std) HP                                            | 1   |
| 66                       | CMA631-010  | Set, Piston Rings (.010 oversize) HP                                  | 1   |
| 67                       | CMA631-030  | Set, Piston Rings (.030 oversize) HP                                  | 1   |
| 71                       | CDB1322     | Assy., -LP Piston w/Rings and Pin (Std)                               | 1   |
| 72                       | CDB1322-010 | Assy., -LP Piston w/Rings and Pin (.010 oversize)                     | 1   |
| 73                       | CDB1322-030 | Assy., -LP Piston w/Rings and Pin (.030 oversize)                     | 1   |
| 74                       | CDB1324     | Assy., -LP Piston w/Rings, Pin & Conn. Rod (Std Piston & Bearing Set) | 1   |
| 75                       | CMA630      | Set, Piston Rings (Std) LP                                            | 1   |
| 76                       | CMA630-010  | Set, Piston Rings (.010 oversize) LP                                  | 1   |
| 77                       | CMA630-030  | Set, Piston Rings (.030 oversize) LP                                  | 1   |
| 83                       | CW2365      | Assembly, Baffle                                                      | 2   |
| 88                       | CM606       | Bearing Set, Connecting Rod (Std)                                     | 2   |
| 93                       | CMA609      | Bearing Set, Connecting Rod (.001 Undersize Shaft)                    | 2   |
| 94                       | CDB1302     | Assembly-Connecting Rod                                               | 2   |
| 95                       | CDB1325     | Assy., -HP Piston w/Rings, Pin & Conn. Rod (Std Piston & Bearing Set) | 1   |
| 96                       | CDB1323     | Assy., -HP Piston w/Rings & Pin (std)                                 | 1   |
| 97                       | CDB1323-010 | Assy., -HP Piston w/Rings & Pin (.010 oversize)                       | 1   |
| 98                       | CDB1323-030 | Assy., -HP Piston w/Rings & Pin (.030 oversize)                       | 1   |
| 152                      | CMA602      | Set, Shim (Small End Plate)                                           | 1   |
| 160                      | CDB1301     | Connecting Rod w/Needle Bearings, Assy                                | 2   |
| 162                      | CDB1329     | Oil Cap/Dipstick w/"O" Ring, Assembly                                 | 1   |
| 164                      | CMA683      | Kit Intercooler Replacement for C98 Climate Control                   | 1   |
| 166                      | CDB1326     | Large End Plate, Ass'y                                                | 1   |

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