AR20.00-P-1142HA Draining and pouring in coolant 2.4.93

ENGINE 112 in MODELS 129, 163, 202, 208, 210, 211.061 /065 /261 /265 /080 /280 /082 /282, 220, 230.467

ENGINE 113 in MODELS 129, 163, 202, 208, 210, 211.070 /083 /283, 215, 220

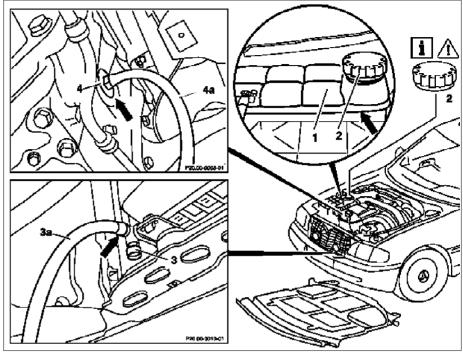
ENGINE 113.962 in MODELS 463.206 /240 /241 /247 /248 /249 /254 ENGINE 112.945 in MODELS 463.209 /232 /233 /244 /245 /250

ENGINE 137 in MODELS 215, 220

ENGINE 113.982 in MODELS 463.241 /243 /246

Illustrated on model 202

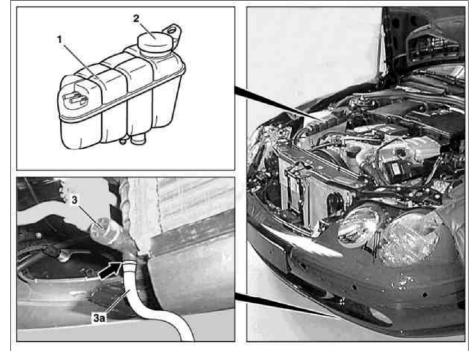
- 1 Coolant expansion reservoir
- 2 Cooling system cap
- 3 Radiator drain plug
- 3a Drain hose (inner diameter 12 mm)
- 4 Crankcase drain plug
- 4a Drain hose (inner diameter 14 mm)



P20.00-0215-06

Shown on model 215 with M137

- 1 coolant expansion reservoir
- 2 Cooling system cap
- 3 Radiator drain plug
- 3a Drain hose (inner diameter 12 mm)



P20.00-2045-06

| | Draining | | |
|-----------|--|--|--------------------|
| ⚠ Danger! | Risk of injury to skin and eyes suffering scalding from contact with hot coolant spray. Risk of poisoning from swallowing coolant. | Do not open cooling system unless coolant temperature is below 90°C. Open cap slowly and release the pressure. Do not pour coolant into beverage bottles. Wear protective gloves, protective clothing and eye protection. | AS20.00-Z-0001-01A |
| () | Notes on coolant | All engines | AH20.00-N-2080-01A |

| irist detent, irrew cap. tate cap half se direction, irrew cap. AR61.20-P-1105AB AR61.20-P-1105GH AR94.30-P-5400GH |
|---|
| tate cap half se direction, srew cap. AR61.20-P-1105AB AR61.20-P-1105GH |
| se direction, srew cap. AR61.20-P-1105AB AR61.20-P-1105GH |
| AR61.20-P-1105AB AR61.20-P-1105GH |
| AR61.20-P-1105AB AR61.20-P-1105GH |
| AR61.20-P-1105GH |
| |
| |
| AR61.20-P-1105T |
| AR61.20-P-1105M |
| AR61.20-P-1105R |
| ARO1.20-1 -1100R |
| |
| 113.942 |
| lant, detach |
| at coolant |
| ulada sa far |
| ulations for |
| |
| replace |
| nps to coolant a damage to |
| |
| *BA20.20-P-1004-01A |
| |
| *BF20.00-P-1001-02K |
| *BF20.00-P-1001-02M |
| AH20.00-P-1142-01V |
| 2, 113 AH20.00-P-1142-01GH |
| n full heat |
| |
| AR20.00-P-1142-06GA |
| |
| AR20.00-P-1010HA |
| |

Nm Radiator, coolant hoses

| Number | Designation | Engines 112.942/ 970, 113.942/ 965/981 |
|--------------------|---------------|--|
| BA20.20-P-1004-01A | Hose clamp Nm | 3 |

| Number | Designation | | | Engines 112.910 /920 in model 202, 112.940 in model 208 | Engines 112.911/921/941 in model 210 | Engines 112.922/944/972 in model 220 |
|--------------------|----------------|---|--------|---|--|--|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 9.5 | Y 10.0 | Y 10.5 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 4.75 | Y 5.0 | Y 5.0 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 5.25 | Y 5.5 | Y 5.5 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A | BB00.40-P-0310-01A | BB00.40-P-0310-01A |
| | | | Sheet | BB00.40-P-0325-00A | BB00.40-P-0325-00A | BB00.40-P-0325-00A |

Cooling system

| Number | Designation | Designation | | Engines 112.923/943 in model 129 | Engine 112.945 in models 463.209/ 232/233/244/ 245/250 | Engine 112.942 in models 163, 113.940/980 in models 210, 113.943/984 in model 208, 113.944 in model 202 |
|--------------------|----------------|---|--------|--|--|--|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 11.75 | Y 11.5 | Y 11.0 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 6.0 | Y 5.8 | Y 5.5 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 6.5 | Y 6.4 | Y 6.0 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A | BB00.40-P-0310-01A | BB00.40-P-0310-01A |
| | | | Sheet | BB00.40-P-0325-00A | BB00.40-P-0325-00A | BB00.40-P-0325-00A |

Cooling system

| Number | Designation | | | Engines 112.913/917/ 949/954 in model 211 | Engines 113.967/969 in model 211 | Engine 113.990 |
|--------------------|----------------|---|--------|--|--|--------------------|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 9.5 | Y 10.75 | Y 13.2 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 4.75 | Y 5.25 | Y 6.6 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 5.25 | Y 6.0 | Y 7.3 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A | BB00.40-P-0310-01A | BB00.40-P-0310-01A |
| 1 | | | Sheet | BB00.40-P-0325-00A | BB00.40-P-0325-00A | BB00.40-P-0325-00A |

Cooling system

| Number | Designation | | | Engines 113.941/960 in models 215, 220 | Engine 113.961 in model 129 | Engine 113.962 in modeld 463.206/ 240/241 /247/248 249/254 |
|--------------------|----------------|---|--------|---|-----------------------------------|--|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 11.5 | Y 12.75 | Y 12 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 5.75 | Y 6.25 | Y 6 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 6.25 | Y 7.0 | Y 6,6 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A | BB00.40-P-0310-01A | BB00.40-P-0310-01A |
| | | | Sheet | BB00.40-P-0325-00A | BB00.40-P-0325-00A | BB00.40-P-0325-00A |

| Number | Designation | | | Engine 113.991 in model 215 | Engines 113.960/ 986 in model 215 | Engine 112.973 in model 230.467 |
|--------------------|----------------|---|--------|--------------------------------|--|---------------------------------------|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 14.5 | Y 11.5 | Y 10.8 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 7.3 | Y 5.75 | Y 5.4 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 8 | Y 6.25 | Y 6 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A | BB00.40-P-0310-01A | BB00.40-P-0310-01A |
| | | | Sheet | BB00.40-P-0325-00A | BB00.40-P-0325-00A | BB00.40-P-0310-01A |

Cooling system

| Number | Designation | | | Engines 112.970 113.965 in model 163 | ENgines 113.942/981 in model 163 | Engine 113.982 in models 463.241/243/246 |
|--------------------|----------------|---|--------|---|--|---|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 12.0 | Y 11.5 | Y 11.9 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 6.0 | Y 5.75 | Y 5.95 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 6.75 | Y 6.25 | Y 6.55 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A | BB00.40-P-0310-01A | BB00.40-P-0310-01A |
| | | | Sheet | BB00.40-P-0325-00A | BB00.40-P-0325-00A | BB00.40-P-0325-00A |

Cooling system

| Number | Designation | | | Engines 113.986/991 in model 220 | Engines 113.948/966 in model 220 | Engine 112.975 in model 220 |
|--------------------|----------------|---|--------|--|--|-----------------------------------|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 13.5 | Y 11.6 | Y 10.4 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 6.8 | Y 5.8 | Y 5.2 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 7.4 | Y 6.4 | Y 5.7 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A | BB00.40-P-0310-01A | BB00.40-P-0310-01A |
| | | | Sheet | BB00.40-P-0325-00A | BB00.40-P-0325-00A | BB00.40-P-0310-01A |

| Number | Designation | Engine 113.968 in models 209, 211; engine 113.969 in model 211 | | |
|--------------------|----------------|---|--------|--------|
| BF20.00-P-1001-02K | Cooling system | Total capacity | Liters | Y 11.5 |
| | | Capacity of anticorrosion/antifreeze agent down to -37°C | Liters | Y 5.75 |

| | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 6.25 |
|--|---|--------|--------------------|
| | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A |
| | | Sheet | BB00.40-P-0325-00A |

| Number | Designation | | | Engine 137.970 |
|--------------------|----------------|---|--------|--------------------|
| BF20.00-P-1001-02M | Cooling system | Total capacity | Liters | Y 12 |
| | | Capacity of anticorrosion/ antifreeze agent down to -37°C | Liters | Y 6 |
| | | Capacity of anticorrosion/ antifreeze agent down to -45°C | Liters | Y 6.6 |
| | | Specifications for Operating Fluids | Sheet | BB00.40-P-0310-01A |
| | | | Sheet | BB00.40-P-0325-00A |