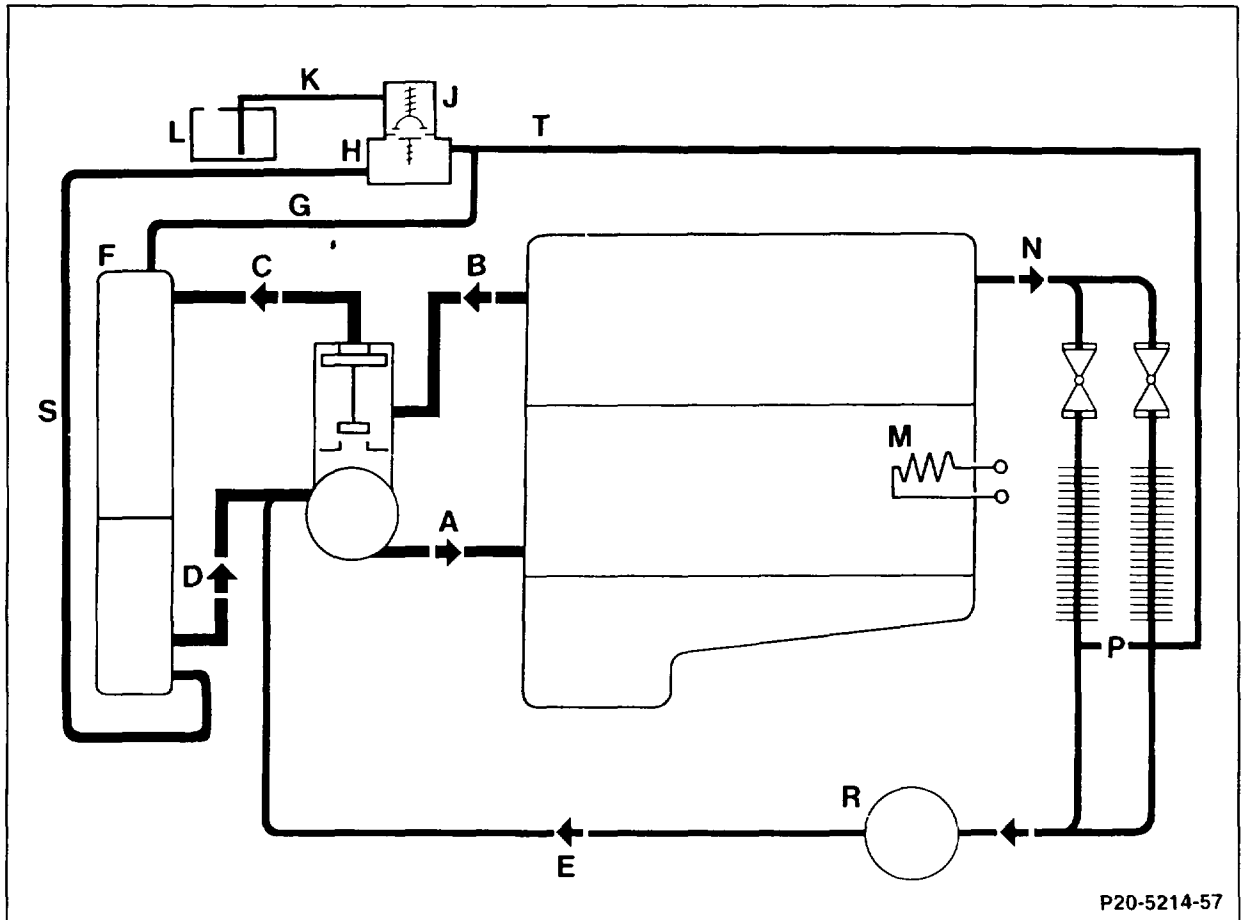


Diagram



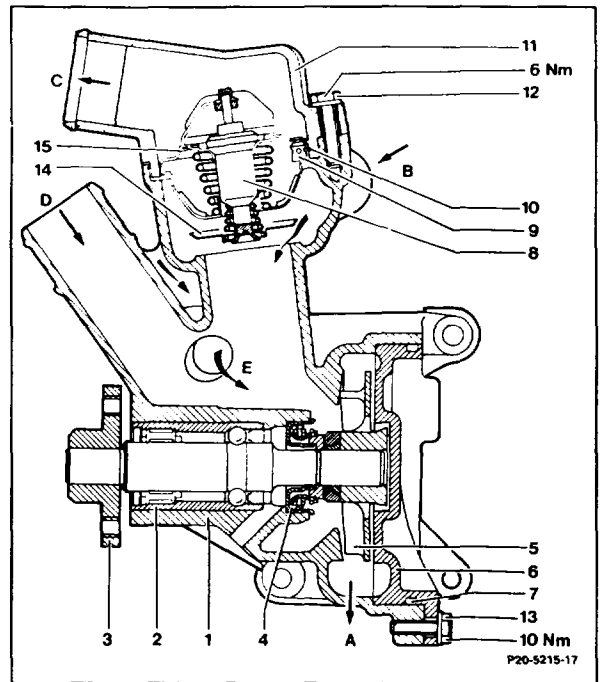
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- |   |   |   |  |
|---|---|---|--|
| A | From coolant pump to crankcase              | K | Drain hose   |
| B | From cylinder head to thermostat            | L | Overflow tank (except models 107, 126)   |
| C | From thermostat to radiator                 | M | Coolant preheater  |
| D | From radiator to coolant pump               | N | From cylinder head to heat exchanger   |
| E | From circulation pump to coolant pump       | P | Heat exchanger   |
| F | Radiator                                    | R | Electric circulation pump  |
| G | Vent hose                                   | S | Coolant filling hose   |
| H | Expansion tank with coolant level indicator | T | Vent line from heat exchanger (P) to expansion tank (H). Installed in model 129 as of 11/1990 as of vehicle ident end no. 022 921. |
| J | Pressure cap                                |   |  |

### A Coolant pump "bypass mode":

Main valve (15) closed. The coolant circulate from the cylinder head through the coolant pump to the crankcase.

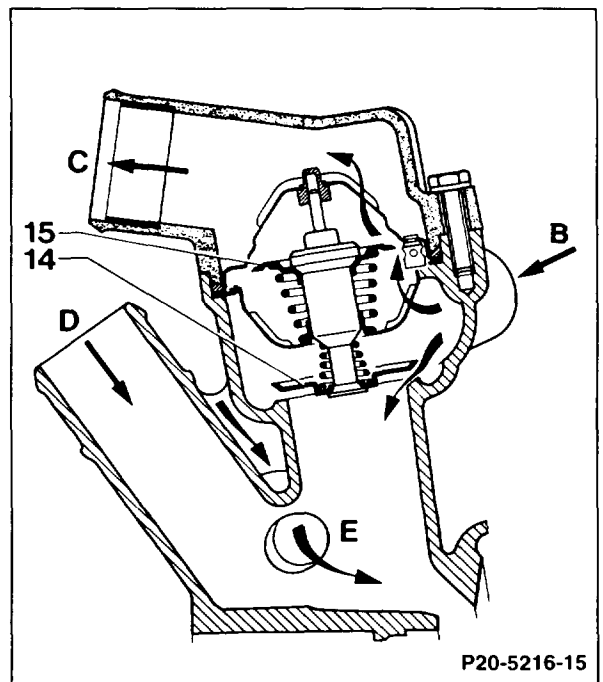
- A To crankcase
- B From cylinder head
- C To top of radiator
- D From bottom of radiator
- E From heater
- 1 Pump housing
- 2 Pump shaft
- 3 Flange
- 4 Cassette-type seal
- 5 Impeller
- 6 Spiral housing
- 7 O-ring
- 8 Thermostat
- 9 Ball valve
- 10 O-ring
- 11 Cover
- 12 Bolt + washer
- 13 Bolt + washer
- 14 Bypass valve
- 15 Main valve



### B Coolant pump "mixed mode":

The main valve (15) is partially open. Coolant circulates partially through the radiator to the crankcase.

- B From cylinder head
- C To top of radiator
- D From bottom of radiator
- E From heater
- 14 Bypass valve
- 15 Main valve



**C Coolant pump "cooling mode":**

Main valve (15) fully open, bypass valve (14) closed.

The coolant flows from the cylinder head through the radiator to the crankcase.

- B From cylinder head
- C To top of radiator
- D From bottom of radiator
- E From heater
- 14 Bypass valve
- 15 Main valve

