GROUP 1 OUTLINE
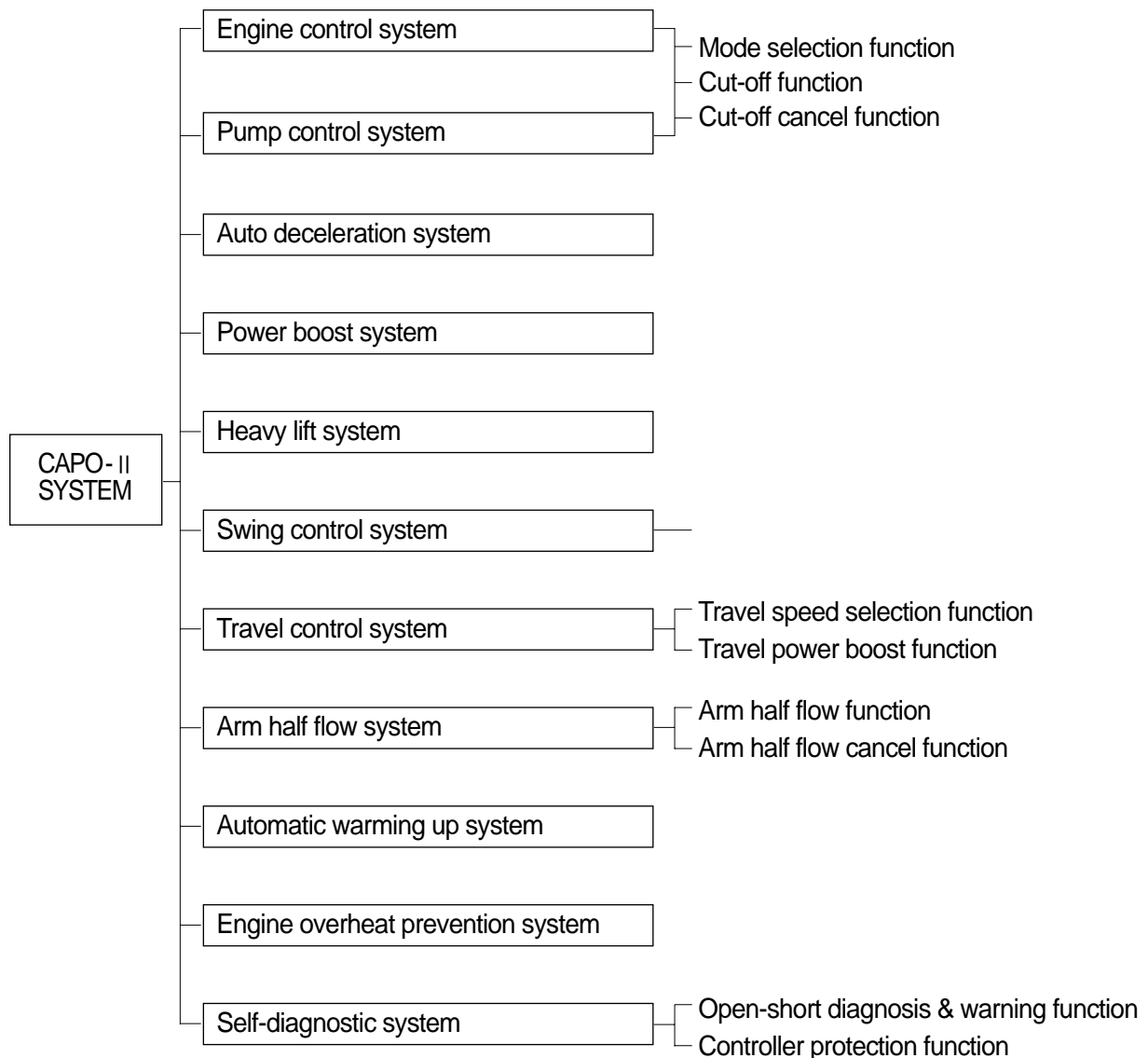
The CAPO(Computer Aided Power Optimization)-II system mainly consists of the engine control system, pump control system, and self-diagnostic system.   By using the CAPO-II system, an operator can use the machine power in optimal condition and in fuel economic state.

It also takes measures to diagnose if any malfunction of short or open circuit happens among wire-harness connected to CPU controller and displays the detected error code by 2-digit number in the CPU controller, and if any short circuit occurs in or out of the CPU controller it protects itself from electric damage.

```
                   ┌─ Engine control system ──┐     ─ Mode selection function
                   │                           ├──  ─ Cut-off function
                   ├─ Pump control system ─────┘     ─ Cut-off cancel function
                   │
                   ├─ Auto deceleration system
                   │
                   ├─ Power boost system
                   │
CAPO-II ───────────┤─ Heavy lift system
SYSTEM             │
                   ├─ Swing control system
                   │
                   ├─ Travel control system ───────  ─ Travel speed selection function
                   │                                 ─ Travel power boost function
                   │
                   ├─ Arm half flow system ─────────  ─ Arm half flow function
                   │                                 ─ Arm half flow cancel function
                   │
                   ├─ Automatic warming up system
                   │
                   ├─ Engine overheat prevention system
                   │
                   └─ Self-diagnostic system ───────  ─ Open-short diagnosis & warning function
                                                      ─ Controller protection function
```

SYSTEM DIAGRAM