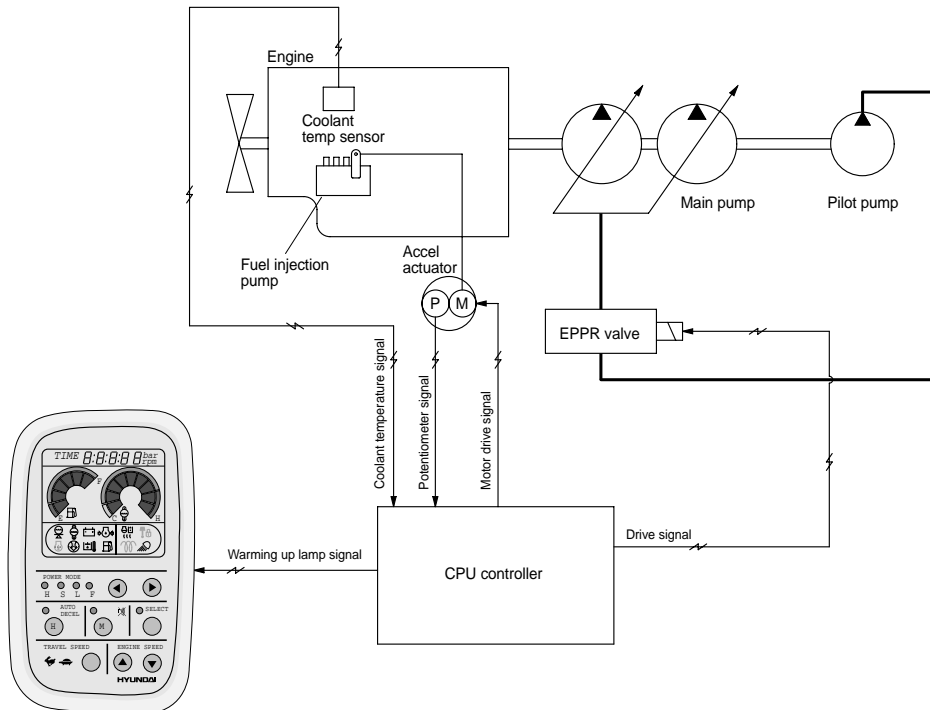## GROUP 6  AUTOMATIC WARMING UP FUNCTION



1. CPU controller reads engine coolant temperature through the temperature sensor, and if the coolant temperature is less than 30℃, it increases the engine speed from key start rpm to 1200rpm.　At this time the mode does not change.

2. In case of the coolant temperature increases upto 30℃, the engine speed is decreased to key start speed.　And if an operator changes mode set during the warming up function, the CPU controller cancels the automatic warming up function.

### 3.  LOGIC  TABLE

| Description | Condition | Function |
|---|---|---|
| Actuated | - Coolant temperature :<br>  Less than 30℃(After engine run) | - Mode : Default(**S** mode)<br>- Warming up time : 10 minutes(Max)<br>- Warming up lamp : ON |
| Canceled | - Coolant temperature : Above 30℃<br>- Warming up time : Above 10 minutes<br>- Changed mode set by operator<br>※If any of the above conditions is<br>  applicable, the automatic warming up<br>  function is canceled | - Default mode<br>- Default mode<br>- Changed mode |
| Warming up lamp | - Coolant temperature : Above 30℃ | - Warming up lamp : OFF |