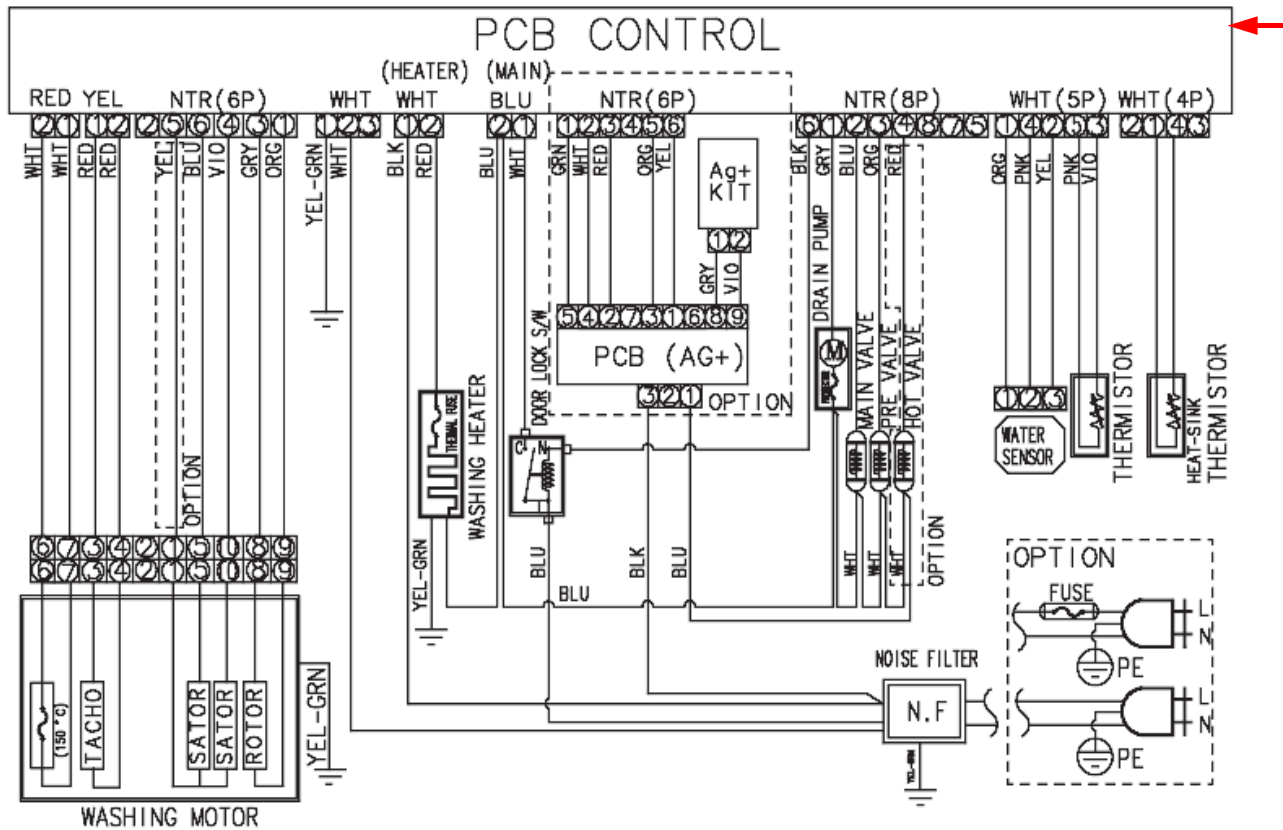
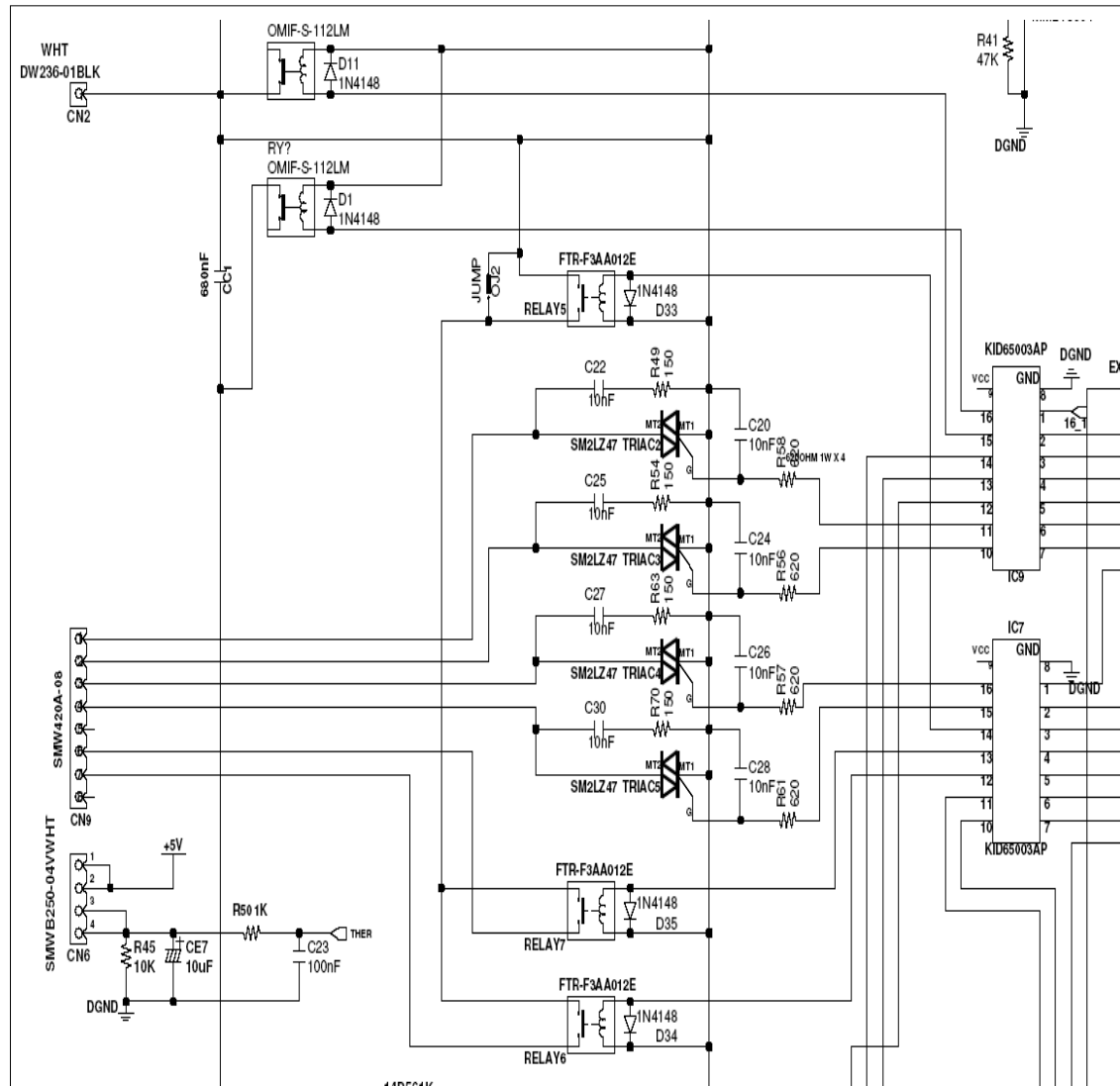


12-1. OVERALL SYSTEM

SCHEMATIC DIAGRAM



12-3. Driving System Circuit



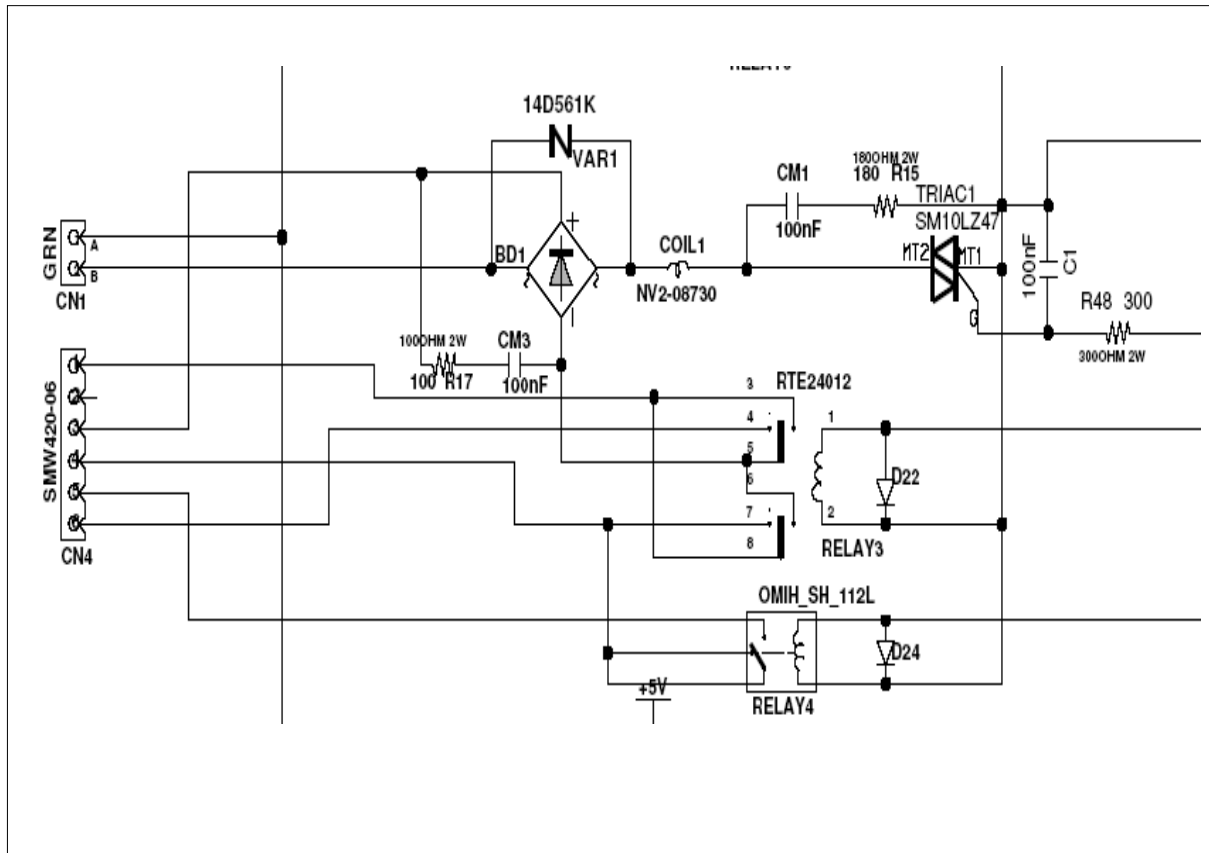
► Function

Controls each driving system (VALVE, DOOR S/W, DRAIN-MOTOR) by turning RELAY or TRIAC on/off.

► Description

- MICOM outputs a high signal of 5V from pin # 1 - 7 of IC7 and IC9.
- Then, pin # 10 to 16 of IC7 and IC9 are electrically grounded (0V).
- When pin # 10 to 16 are grounded, this creates an electric potential difference from the 12V that turns on RELAY 5,6,7 and TRIAC2,3,4,5.
- The operating parts (VALVE, DRAIN-MOTOR, DOOR S/W) connected to CN9 turn on if they are supplied with power.

12-4. Motor Circuit



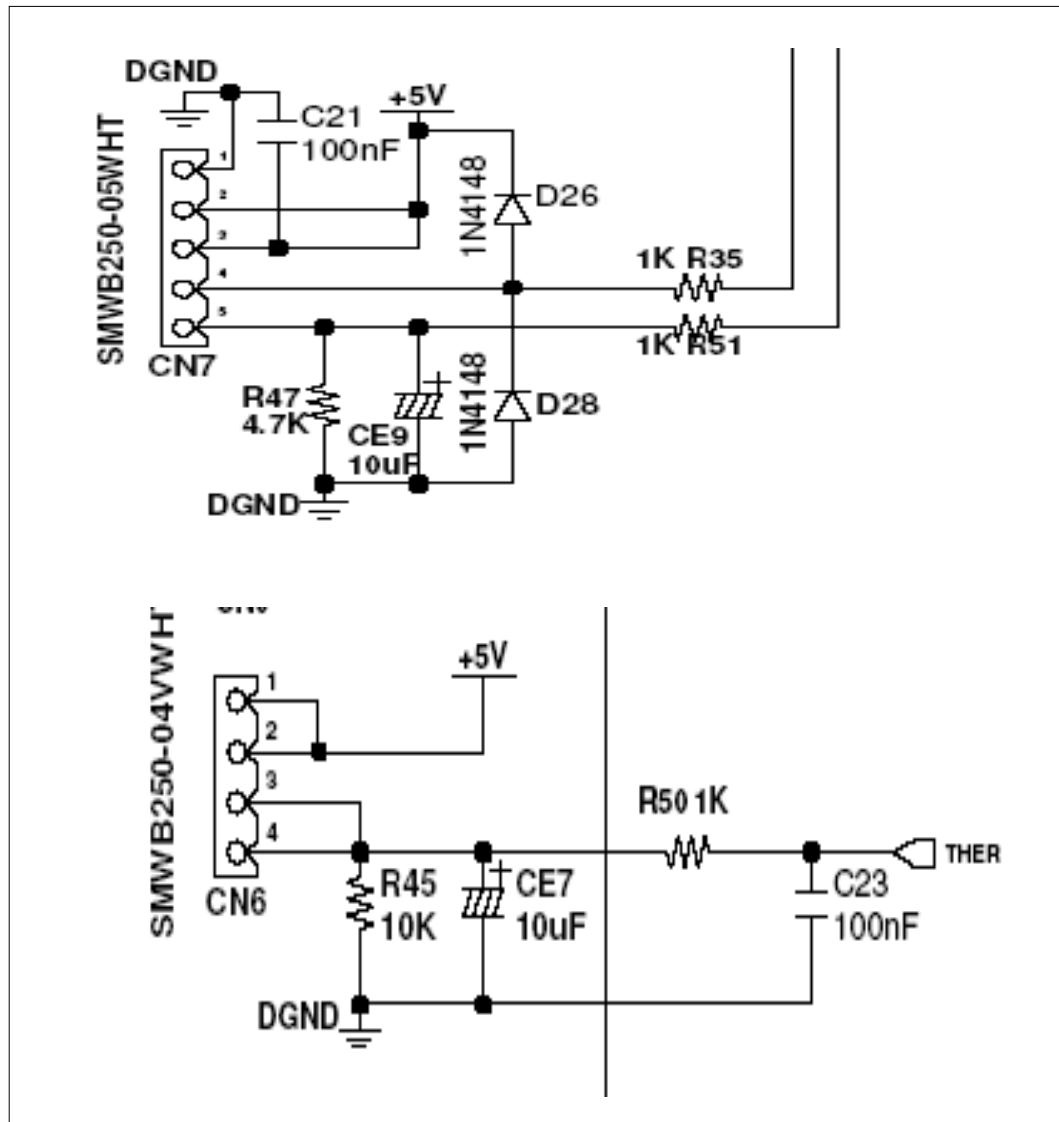
► Function

Supplies power to the motor and turns it CW/CCW (Right / Reverse direction).

► Description

- The operation of TRIAC1 is the same as that of the driving system.
- If the electric potential of R48 is grounded (0V), TRIAC1 turns on.
- CN1 detects if the door is locked or unlocked. If unlocked, it does not apply power to the motor even if TRIAC1 turns on.
- If the door is unlocked and TRIAC turns on, the motor connected to CN4 is supplied with power and drives CW (right direction).
- Under such conditions, turning RELAY3 on will drive the motor CCW (reverse) as the wiring is switched to CCW.
- Turning RELAY4 on will switch the winding of the motor to one for higher driving.

12-5. Sensor Detection Circuit



► Function

Detects signals from the sensor and controls the current system.

► Description

- The water level sensor is connected to pin 4 of CN7.
- The frequency of the level sensor changes according to the water amount in the tub.
- Then, the frequency is input to MICOM pin 48 for detecting the water amount.
- The DHSEH sensor is connected to CN7 pin 5 and CN6 pins 3,4.
- The resistance of the temp. sensor changes according to the ambient temperature. The changed resistance is applied to R50 and R51.
- The voltage applied to R50 and R51 is decided according the temp. MICOM stores the value.
- When voltage is applied to MICOM pins 22 and 23, MICOM compares it to the pre-defined one before detecting the current temp.