18-4. Fusing Temperature Control

- The Fusing Roller Heater Lamp is turned ON and OFF to maintain a set temperature on the surface of the Fusing Roller.
- The Fusing Roller surface temperature is detected by using a thermistor that translates the temperature to a corresponding electrical signal.
- If the Fusing Roller temperature becomes excessively high, the Fusing Roller Heater Lamp is shut down.

Part Name	Symbol	Function	Controlled Temperature
Fusing Heater Lamp	H1	• Turns ON during the warming-up cycle. • Turns ON during a copy cycle. • Turns ON in the standby state following warming-up.	—
Thermistor	TH1	• Detects the surface temperature of the Upper Fusing Roller. • Detecting an abnormally low temperature (130 °C): C0510	185 °C
Fusing Thermoswitch	TS1	• Detecting an abnormally high temperature (230 °C): C0520 (Shuts down power supply to H1)	—

Fusing Roller surface temperature	Fusing temperature control
Less than 90 °C	Temperature is controlled at 195 °C for 3 min. after the copier has completed warming up, which is followed by a temperature control at 185 °C.
Less than 150 °C	Temperature is controlled at 195 °C for 1 min. after the copier has completed warming up, which is followed by a temperature control at 185 °C.
More than 150 °C	Temperature is controlled at 185 °C after the copier has completed warming up.