



Fast Track Troubleshooting

Model:
SMH9187B/XAA
SMH9187ST/XAA
SMH9187W/XAA

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Publication # [r557HS187](#), Revision Date 1/23/2012

Error Code	Cause and countermeasures	SE error. Switch membrane not available. Order Control Panel.	
-SE-	Key short error(10 sec.). Replace any control panel or smart board.		
E-11	Sensor open error. Check unplugged sensor, wiring or smart board. If necessary, replace sensor. If error code appears when starting sensor function, replace smart board.	SMH9187B/XAA	DE94-02001A
E-12	Sensor short error. Check shorted sensor or smart board. If necessary, replace sensor. If error code appears when starting sensor function, replace smart board.	DW18187W/XAA	DE94-02001D
E-13	Sensor TI max time error. Check sensor. If necessary, replace sensor. If error code appears when starting sensor function, replace smart board.	SMH9187ST/XAA	DE94-02001C

TO TEST BLOWER WINDINGS: 1. Disconnect power and remove grill. 2. Open control panel and discharge capacitor. 3. Disconnect the two wires to the run capacitor. Continuity test across the two wires should be approximately 61 ohms of resistance. This test allows you to read across all windings at the same time.

Oven Thermal Cutoff

The oven thermal cutoff (Cavity TOC) is located on the top side of the oven cavity beside exhaust duct with a temperature rating of 248°F (120°C) and is **NOT** resettable.

The cutoff is tightly held to the top of the oven cavity under the duct-upport.

Hood Thermal Cutoff

This cutoff will protect the touch control from excessive heat by turning the vent fan on at low speed. If the vent fan units of the range are used for long periods of time heat will build up and could damage the microwave control. In order to prevent this, a thermal cutoff is installed on the duct behind the controls. This cutoff will close (158 F/70 C - vent fan energized) and open (104°F/40°C - vent fan de-energized) depending on temperature.

Magnetron Thermal Cutoff

The magnetron thermal cutoff is located above the leads to the magnetron. It is designed to prevent damage to the magnetron if an overheated condition develops in the tube due to cooling fan failure, obstructed air ducts, dirty or blocked air intake. Under normal operation, the magnetron thermal cutoff remains closed. However, when abnormally high temperatures are reached within the magnetron, the magnetron thermal cutoff will open at 302°F (150°C) causing the oven to shut down. After the temperature drops to 140°F (60°C) it will reset and cooking will be able to resume.

Bottom Thermal Cutoff

During a fire on the stove the heat could be intense enough to close the Hood Thermal Cutoff and force the fan to run. While at moderately high temperature we do want it to run, however during a fire it is advantageous to NOT have the vent fan running. So if a fire were to start on the stove top the Bottom Thermal Cutoff would open at 248°F (120°C) and remove all power to the microwave oven. This cutoff is **NOT** resettable.

Samsung Smh9187 Installation Manual

Scott C. Dulebohn



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Table of Contents Samsung Smh9187 Installation Manual

1. Understanding the eBook Samsung Smh9187 Installation Manual
 - The Rise of Digital Reading Samsung Smh9187 Installation Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Samsung Smh9187 Installation Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Samsung Smh9187 Installation Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Samsung Smh9187 Installation Manual
 - Personalized Recommendations
 - Samsung Smh9187 Installation Manual User Reviews and Ratings
 - Samsung Smh9187 Installation Manual and Bestseller Lists
5. Accessing Samsung Smh9187 Installation Manual Free and Paid eBooks
 - Samsung Smh9187 Installation Manual Public Domain eBooks
 - Samsung Smh9187 Installation Manual eBook Subscription Services
 - Samsung Smh9187 Installation Manual Budget-Friendly Options

6. Navigating Samsung Smh9187 Installation Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Samsung Smh9187 Installation Manual Compatibility with Devices
 - Samsung Smh9187 Installation Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Samsung Smh9187 Installation Manual
 - Highlighting and Note-Taking Samsung Smh9187 Installation Manual
 - Interactive Elements Samsung Smh9187 Installation Manual
8. Staying Engaged with Samsung Smh9187 Installation Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Samsung Smh9187 Installation Manual
9. Balancing eBooks and Physical Books Samsung Smh9187 Installation Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Samsung Smh9187 Installation Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Samsung Smh9187 Installation Manual
 - Setting Reading Goals Samsung Smh9187 Installation Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Samsung Smh9187 Installation Manual
 - Fact-Checking eBook Content of Samsung Smh9187 Installation Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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