

A chirping smoke detector can be frustrating, but before you replace it, here are five quick checks that may solve the problem on the spot:

1. Check the Battery

Confirm the battery activation tab is fully removed and the battery is installed correctly. Test the unit using battery power only to rule out AC issues.

2. Inspect for Dust or Debris

Insects, drywall dust, or carpet fibers inside the sensing chamber can cause nuisance chirps. Power down the unit and vacuum around the grill, battery drawer, and sides, or use clean, oil-free compressed air.

3. Review LED and Chirp Pattern

Pay attention to the number and timing of chirps and any LED behavior—these can indicate low battery, sensor fault, or an end-of-life warning.

4. Check Placement

Units too close to kitchens, bathrooms, AC Vents or laundry rooms may be affected by steam, humidity, dust or cooking smoke. Relocating the alarm can prevent recurring issues.

5. Evaluate Power Supply

For hardwired units, ensure they aren't sharing a circuit with dimmer switches, fluorescent lights, or high-load appliances.

Brownouts, "dirty power from things like EV chargers," or a loose neutral connection can also cause chirping.

Need a Deeper Dive?

We also have an Advanced Diagnostics Checklist that goes even further into potential causes and solutions for smoke detector issues. If you'd like a copy, we'd be happy to share it—just reach out and we'll get it to you right away.

UL 9th Edition Cross Reference

TYPE OF ALARM	PREVIOUS ORDERING #	PREVIOUS MODEL	CURRENT MATERIAL ORDERING #	CURRENT MODEL	MATERIAL SHORT DESCRIPTION	SENSOR TYPE
Smoke Alarm	3120B	3120B	1046759	SM300-AC	Alarm Smoke AC/DC Dual SM300-AC Box	Photo/Ion
Smoke Alarm	7010B	7010B	1046721	SM100V-AC	Alarm Smoke AC/DC W/VCE SM100V-AC Box	Photo
Smoke Alarm	1042736	7010LBL	1048322	SM110V-AC	Alarm Smoke AC/DC0 W/VCE SM110V-AC Box	Photo
Smoke Alarm w/Strobe	1038335	7020BSL	1046726	SM110LED-AC	Alarm Smoke AC/DC10 STRB SM110LED-AC Box	Photo
Smoke Alarm	9120B	9120B	1046836	SMI100-AC	Alarm Smoke AC/DC SMI100-AC Box	Ion
Smoke Alarm	9120AB	9120B	No Direct Replacement	No Direct Replacement		Ion
Smoke Alarm	9120LBL	9120LBL	1046850	SMI105-AC	Alarm Smoke AC/DC Dual SMI105-AC Box	Ion
Smoke Alarm	New	9120LBL	104851	SMI105-AC	Alarm Smoke AC/DC10SMI105-AC 6CP	Ion
Smoke Alarm	FG250B	FG250	1046832	SMI100	Alarm Smoke DC SMI100 Box	Ion
Smoke Alarm	FG250LB	FG250	No Direct Replacement	No Direct Replacement		Ion
Smoke Alarm	SA350B	827	1046858	SMI110	Alarm Smoke DC10 SMI110 Box	Ion
Smoke Alarm	1040964	827	1046859	SMI110	Alarm Smoke DC10 SMI110 6CP	Ion
Smoke Alarm	PR710B	P1210	1046741	SM210	Alarm Smoke DC10 SM210 Box	Photo
Smoke Alarm	New	P1210	1046739	SM210	Alarm Smoke DC10 SM210 6CP	Photo
Smoke Alarm	1039772	P1200-PR700B	1046728	SM200	Alarm Smoke DC Slim SM200 Box	Photo
Smoke Alarm	1039796	SA303	1046832	SMI100	Alarm Smoke DC SMI100 Box	Ion
Smoke Alarm	1039800	SA304	1046747	SM210L	Alarm Smoke DC10 W/LGT SM210L Clam Tray	Ion
Smoke Alarm	1039842	SA3210	1046767	SM310	Alarm Smoke DC10 Dual SM310 Box	Photo/Ion
Smoke Alarm	1039828	SA320	No Direct Replacement	No Direct Replacement		Photo/Ion
Smoke Alarm	New	New	1046757	SM210V	Alarm Smoke DC10 W/VCE SM210V Box	Photo
Combo Smoke/CO Alarm	SC7010B	SC7010B	No Direct Replacement	No Direct Replacement		Photo
Combo Smoke/CO Alarm	SC7010BV	SC7010BV	1046781	SMCO100V-AC	Alarm Combo AC/DC W/VCE SMCO100V-AC Box	Photo
Combo Smoke/CO Alarm	1043567	SC7010BV	1046780	SMCO100V-AC	Alarm Combo AC/DC W/VCE SMCO100V-AC 6CP	Photo
Combo Smoke/CO Alarm	SC9120B	SC9102B	1046871	SMCO100-AC	Alarm Combo AC/DC SMICO100-AC Box	Ion
Combo Smoke/CO Alarm	SC9120B6CP	SC9120B6CP	1046873	SMICO100-AC	Alarm Combo AC/DC SMICO100-AC 6CP	Ion
Combo Smoke/CO Alarm	SC9120LBL	SC9120LBL	1046884	SMICO105-AC	Alarm Combo AC/DC10 SMICO105-AC Box	Ion
Combo Smoke/CO Alarm	New	SC9120LBL	1046885	SMICO105-AC	Alarm Combo AC/DC10 SMICO105-AC 6CP	Ion
Combo Smoke/CO Alarm	1042734	SC7010LBLV	1046791	SMCO110V-AC	Alarm Combo AC/DC10 VCE SMCO110VAC Box TR	Photo
Combo Smoke/CO Alarm with Strobe	1038870	7030BSL	1046789	SMCO110LED-AC	Alarm Combo AC/DC STRB SMCO110LED-AC Box	Photo
Combo Smoke/CO Alarm	PRC710B	PC1210	1046802	SMCO210	Alarm Combo DC SMCO210 Box	Photo
Combo Smoke/CO Alarm	1040957	PC1210	1046801	SMCO210	Alarm Combo DC Slim SMCO210 6CP	Photo
Combo Smoke/CO Alarm	1039783	PRC700VB-PC1200V	1046795	SMCO200V	Alarm Combo DC W/VCE SMCO200V Clam Tray	Photo
Combo Smoke/CO Alarm	SCO2B	SCO2	1046864	SMICO100	Alarm Combo DC SMICO100 Box	Ion
Combo Smoke/CO Alarm	1039873	PC1200	1046794	SMCO200	Alarm Combo DC Slim SMCO200 Box	Photo
Combo Smoke/CO Alarm	1039872	PRC710V	1046808	SMCO210V	Alarm Combo DC10 W/VCE SMCO210V Box	Photo
Combo Smoke/CO Alarm	New	New	1046890	SMICO110	Alarm Combo DC10 SMICO110 Box	Ion
Wireless Interconnect Smoke Alarm	SA511B	SA511	1046774	SM500V	Alarm Smoke DC RFID SM500V Box	Photo
Wireless Interconnect Combo Smoke and CO Alarm	SCO500B	SCO500	1046815	SMCO500V	Alarm Combo DC RFID SMCO500V Box	Photo