

Compass/ Temperature EC Mirror Trouble Shooting Guide

CONDITION	POSSIBLE CAUSE	ACTION
Mirror face does not darken.	<ul style="list-style-type: none"> EC function is not on. Mirror is not receiving power. Light Sensor is blocked. 	Use pinpoint test A.
Mirror face is always dark.	<ul style="list-style-type: none"> Light Sensor is blocked. 	Use pinpoint test B.
Compass display is inaccurate.	<ul style="list-style-type: none"> Compass pod is not mounted properly. External magnetic influence is present. Zone setting is incorrect. Compass pod was not calibrated. 	Use pinpoint test C.
There is no compass display.	<ul style="list-style-type: none"> Compass display is switched off. Mirror is not receiving power. Compass pod is not connected to mirror. Temperature sensor not connected. Damaged temperature sensor. Damaged temperature harness. 	Use pinpoint test D. Use pinpoint test E.
OC or *SC* is shown in temperature display.	<ul style="list-style-type: none"> User is not familiar with temperature filtering. Sensor is mounted in wrong position. Damaged temperature sensor Damaged temperature harness 	Use pinpoint test F.
Temperature reading is inaccurate.	<ul style="list-style-type: none"> Sensor is mounted in wrong position. Damaged temperature sensor Damaged temperature harness 	Use pinpoint test G.
Some segments of display do not work.	<ul style="list-style-type: none"> Damaged mirror head. 	Use pinpoint test H.
Display does not dim at night.	<ul style="list-style-type: none"> Damaged mirror opening blocked. 	Use pinpoint test I.
Display is always dim.	<ul style="list-style-type: none"> Light sensor opening blocked. Damaged mirror head. 	Use pinpoint test I.

PINPOINT TEST A: MIRROR FACE DOES NOT DARKEN

NOTE: Mirror will only darken when forward facing (toward windshield) light sensor reads low light (night conditions) and rear facing (toward driver) light sensor is exposed to light source such as head lights through rear window.

TEST STEP	RESULT	ACTION
A1: Is green LED on?	YES NO	Go to A2. Push left button. Verify green light. Go to A2. If no light function, Go to A3.
A2: With glass side of mirror in lighted environment, cover round light sensor opening in back of mirror. Verify that rear facing light sensor to right of display is not blocked from light source. Does mirror face dim?	YES NO	Test finished. Mirror functional. Go to A3.
A3: Remove 7-pin connector from back of mirror. Turn ignition to on position. Measure voltage across pins 1 & 2 with positive lead on pin 1. Is voltage between 9V and 16V?	YES NO	Replace mirror head. Correct power harness connection to vehicle. Refer to installation instructions. Go to A1.
A4: Verify the correct power harness connection to vehicle. Refer to installation instructions. Is power harness installed correctly?	YES NO	Replace mirror head. Reinstall harness following instructions. Go to A1.

PINPOINT TEST B: MIRROR FACE IS ALWAYS DARK

TEST	RESULT	ACTION
B1: Is anything blocking the forward facing light sensor opening, (opposite from glass)? Mirror should be evaluated in daylight conditions.	YES NO	Remove obstruction. Verify that mirror changes to high reflectance. (mirror clears). Replace mirror head.

PINPOINT TEST C: COMPASS DISPLAY IS INACCURATE

TEST	RESULT	ACTION
C1: Is pod snapped onto mount?	YES NO	Go to C2. Snap pod on. Go to C2.
C2: Is external magnetic influence (roof antenna, etc.) close to mirror?	YES NO	Move external magnet to location further from mirror. Go to C3.

C3: Is zone set correctly? See setting zone. Use procedure included in installation instructions.	YES NO	Go to C4. Set compass zone.
C4: Has compass been calibrated?	YES NO	Replace mirror head. Calibrating compass. Procedure included in installation instructions. Verify compass reading is accurate.

PINPOINT TEST D: THERE IS NO COMPASS DISPLAY

TEST	RESULT	ACTION
D1: Press right most button. Does display turn on?	YES NO	Test finished. Mirror is functional. Go to D2.
D2: Test per A3. Is voltage between 9V and 16V?	YES NO	Go to D3. Test per A4 then go to D1.
D3: Is the harness from the mirror head connected to the pod?	YES NO	Replace mirror head. Plug in compass connector and verify that display turns on.

PINPOINT TEST E: *OC* OR *SC* SHOWN IN TEMPERATURE DISPLAY

TEST	RESULT	ACTION
E1: Is the temperature sensor connected to the temperature harness?	YES NO	Go to E2. Install temperature sensor, then verify that temperature display no longer reads *OC*.
E2: Remove 7-pin connector from back of mirror. At room temperature use ohm meter to measure the resistance through Temperature Harness, Pins 6 & 7 for Mirror without Map Light, Pins 4 & 5 for Mirror with Map Light. Is the resistance between 9 k-ohms and 11k-ohms?	YES NO	Replace mirror head. Go to E3.
E3 Measure resistance on temperature probe. Is the resistance between 9k-ohms and 11k-ohms?	YES NO	Replace temperature harness Replace temperature probe.

PINPOINT TEST F: TEMPERATURE READING IS INACCURATE

NOTE: The temperature sensor is located in the front bumper area. Due to the sensor's location, the sensor can be affected by road or engine heat during idling or slow driving. Adaptation to ambient temperature takes place in steps through time filtering and depends on the prevailing driving conditions and amount of temperature change. Because of the filtering, the display will take approximately three minutes to update to ambient temperature if the current temperature is higher than the previous time the vehicle was turned on.

TEST	RESULT	ACTION
F1: Refer to temperature operation description, in NOTE above, do symptoms fit description?	YES NO	Test finished. Mirror is functional. Go to F2.
F2: Is probe mounted per installation instructions?	YES NO	Reinstall probe, per instructions, then verify reading is accurate.
F3: Test per Pinpoint Test E. 1 Is temperature reading still inaccurate?	YES NO	Replace mirror head. Test is finished. Mirror is functional.

PINPOINT TEST G: SOME SEGMENTS OF DISPLAY DO NOT WORK

TEST	RESULT	ACTION
G1: Turn ignition to on position and watch display. Do all segments light up?	YES NO	Test is finished. Mirror is functional. Replace mirror head.

PINPOINT TEST H: DISPLAY DOES NOT DIM AT NIGHT

TEST	RESULT	ACTION
H1: Cover both forward and rear facing light sensor openings. Does display dim after 10 sec?	YES NO	Test is finished. Mirror is functional. Replace mirror head.

PINPOINT TEST I: DISPLAY IS ALWAYS DIM

TEST	RESULT	ACTION
I1: Are light sensor openings in front and back of mirror blocked?	YES NO	Remove blockage. Replace mirror head.

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