

## 13. EyeSight Temporary Code(s) Display

### A: OPERATION

If the EyeSight pause code is detected from the stereo camera, all the functions of the EyeSight excluding the conventional cruise control stop temporarily and cannot be used. When the failure is resolved, the function starts operating.

- 1) On «Main Menu» display, select «Each System Check».
- 2) On «System Selection Menu» display, select «ADA adaptive cruise control system».
- 3) On «ADA adaptive cruise control system» display, select «EyeSight (from 2009MY)».
- 4) On «EyeSight (from 2009MY)» display, select «EyeSight Temporary Code(s) Display».

#### NOTE:

- For detailed operation procedures, refer to “PC application help for Subaru Select Monitor”.
- Temporary stop is not released even if the lane departure warning OFF switch or pre-collision brake OFF switch is pressed.
- Depending on the situation, temporary stop may not be released even if the ignition switch is turned off.
- Up to 20 codes can be stored.
- Stored codes will be cleared by Clear Memory.
- For details on EyeSight temporary stop codes, refer to List of ACC cancel code. <Ref. to ES(diag)-64, LIST, EyeSight Temporary Code(s) Display.>

# EyeSight Temporary Code(s) Display

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## B: LIST

- List of EyeSight temporary stop code

EyeSight pause code	Item	Contents of diagnosis	Reference
E5	Camera temporary stop	The operation stopped temporarily due to vertical deviation of the optical axis of the stereo camera. (During CRUISE MAIN ON, "EyeSight Disabled Check Manual" is displayed in the multi-information display.)	Perform inspection concerning the item for E5 of the "CHECK LIST (CAMERA TEMPORARY STOP)". <Ref. to ES(diag)-66, CHECK LIST (CAMERA TEMPORARY STOP), LIST, EyeSight Temporary Code(s) Display.> This code may be displayed when the rear of the vehicle is lowered by the overload. When the failure is resolved, and the operation returns from the temporary stop status after driving for a while, it is normal. If this item is displayed in an ordinary use under which the vehicle is not tilted, readjust the stereo camera. <Ref. to ES-12, PROCEDURE, Camera Adjustment, Inspection.> If the same cancel code is still detected after readjustment, replace the stereo camera. <Ref. to ES-7, REMOVAL, Stereo Camera.>
CC		Temporary stop was performed due to the bad weather, backlight, fogged window or dirty window interfering with the recognition function of the stereo camera. And this code may be displayed also when the front of the camera is blocked by the hand or when it is very dark around the vehicle or when the vehicle is surrounded by the blanket of snow and nothing can be seen from the stereo camera. (During CRUISE MAIN ON, "EyeSight Disabled No Camera View" is displayed in the multi-information display.)	Investigate the following items No. 1 and No. 2, and check that the possible cause of the temporary stop is applied either to No. 1 or No. 2. 1. Perform inspection concerning the item for CC and CD of the "CHECK LIST (CAMERA TEMPORARY STOP)". <Ref. to ES(diag)-66, CHECK LIST (CAMERA TEMPORARY STOP), LIST, EyeSight Temporary Code(s) Display.> When there is a relevant item in the check list, it can be the cause of malfunction. 2. Read the temporary stop count stored in the temporary stop count of current data, and check the cause of the temporary stop occurred in the past from "LIST OF CONTENTS FOR CAMERA TEMPORARY STOP: 0 — 23 COUNTS". <Ref. to ES(diag)-68, LIST OF CONTENTS FOR CAMERA TEMPORARY STOP, LIST, EyeSight Temporary Code(s) Display.> When the causes of the temporary stop for No. 1 and No. 2 correspond, drive the vehicle for a while after the cause of the temporary stop has been eliminated. If the operation returns from the temporary stop status, it is normal. (However, when the temporary stop takes place and is cancelled repeatedly, the temporary stop status is kept for a while to delay the return of the operation, which prevents the irritation.) When this is not the case, check the stereo camera and its periphery. <Ref. to ES(diag)-7, WINDSHIELD GLASS AND DASHBOARD, INSPECTION, General Description.> <Ref. to ES(diag)-11, FRONT WIPER, INSPECTION, General Description.> <Ref. to ES(diag)-12, STEREO CAMERA, INSPECTION, General Description.>
CD			

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EyeSight pause code	Item	Contents of diagnosis	Reference
CE	Camera temporary stop	The temperature of the stereo camera became excessively high or low, and the operation stopped temporarily. (During CRUISE MAIN ON, "EyeSight Disabled Temp Range" is displayed in the multi-information display.)	Perform inspection concerning the item for CE of the "CHECK LIST (CAMERA TEMPORARY STOP)". <Ref. to ES(diag)-66, CHECK LIST (CAMERA TEMPORARY STOP), LIST, EyeSight Temporary Code(s) Display.> When the failure is resolved, and the operation returns from the temporary stop status, it is normal. When the operation does not return from the temporary status even if driving the vehicle for a while after the failure has been resolved, replace the stereo camera. <Ref. to ES-7, REMOVAL, Stereo Camera.>
33		Detected when engine speed is 300 rpm or less. (Not detected at an initial ignition switch ON.) (During CRUISE MAIN ON, "EyeSight Disabled Check Manual" is displayed in the multi-information display.)	Detected when the engine speed drops below 300 rpm after the engine has started once. (except during Auto Start Stop operation) However, this code is detected when the seat belt is unfastened during Auto Start Stop operation or when the door is opened. If the same EyeSight temporary stop code is detected again when the engine is restarted, check the ECM. <Ref. to EN(H4DO w/o HEV)(diag)-2, PROCEDURE, Basic Diagnostic Procedure.>
C0	Pre-Collision Second Braking Activation	Because the pre-collision secondary brake operated three times between engine starting and stopping, the temporary stop is performed. (This is not a normal driving operation, or the system may be malfunctioning.) (During CRUISE MAIN ON, "EyeSight Disabled Check Manual" is displayed in the multi-information display.)	This code may be displayed when the pre-collision brake is operated intentionally. Turn the ignition switch to OFF, and restart after a while. If the operation returns from the temporary stop status, it is normal. When temporary stop status continues with a code other than C0 after restart, perform diagnosis according to the code. When temporary stop status continues with the code of C0 after restart, the stereo camera may be malfunctioning. Replace the stereo camera. <Ref. to ES-7, REMOVAL, Stereo Camera.>
A0	CAN Diagnosis Inhibition	The voltage dropped below 10 V immediately after IGN ON. (During CRUISE MAIN ON, "EyeSight Disabled Check Manual" is displayed in the multi-information display.)	This code may be displayed when the engine is not started for a while with the ignition switch ON and when the engine has started after that. This is a normal operation. If this is not the case, the supply voltage may be malfunctioning. <Ref. to ES(diag)-78, DTC B2814 POWER SUPPLY VOLT ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
A1	ECM Reprogramming	Because the control module (CM) is being reprogrammed, temporary stop is performed. (During CRUISE MAIN ON, "EyeSight Disabled Check Manual" is displayed in the multi-information display.)	After the completion of the reprogramming operation, turn the ignition to OFF and restart. If the operation returns from the temporary stop status, it is normal.

# EyeSight Temporary Code(s) Display

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## 1. CHECK LIST (CAMERA TEMPORARY STOP)

Even when the set status of the adaptive cruise control is canceled or when a temporary stop status occurs, the EyeSight temporary stop code will not be retained for the following conditions.

- When the lane departure warning is stopped by pressing the lane departure warning OFF switch
- Immediately after the engine start

When these cases does not apply but the EyeSight temporary stop code is displayed, perform the inspection according to the following items.

Item name		Yes/No	
[1]: EyeSight temporary stop code [CC, CD] (At this time, “EyeSight Disabled No Camera View” is displayed in the multi-information display.)			
1	Check that the current status applies to the condition that are difficult to be recognized by the stereo camera.		
1	It was bad weather (heavy rain, snowstorm, dense fog; especially when the oil film adheres to the windshield glass, the glass coating agent is used, or when the old wiper is used).	Yes	No
2	The vehicle was exposed to the intense light (backlight such as sunlight or headlight high-beam light) from the front of the vehicle.	Yes	No
3	The raindrops, water drops or dirt on the windshield glass are not wiped off sufficiently.	Yes	No
4	The windshield glass is covered with fog, snow, dirt, frost or sandy dust, and either of them blocks the visibility of the stereo camera.	Yes	No
5	The vehicle was tilted excessively by the heavy load.	Yes	No
6	Canoes etc. loaded on the roof blocked the visibility of the stereo camera.	Yes	No
7	The field of view was insufficient due to water or snow raised by the preceding vehicle or oncoming vehicle, or the moisture, sand, smoke or sandy dust blown in the wind.	Yes	No
8	The vehicle passed through the outlet or inlet of a tunnel.	Yes	No
9	The rearmost area of preceding vehicle was small (trailer, etc.), low or uneven.	Yes	No
10	The object was a fence or wall with even pattern (striped pattern or bricks) or unpatterned surface.	Yes	No
11	The object was a plate of glass, mirror wall or door.	Yes	No
12	The tail light of the preceding vehicle did not illuminate during nighttime hours or inside the tunnel.	Yes	No
13	The vehicle passed through the banners, flags, drooping branches or grass.	Yes	No
14	The vehicle drove on the steep uphill or steep downhill.	Yes	No
15	Front of the camera was blocked by the hand.	Yes	No
16	It was very dark and there was no obstacle around the vehicle.	Yes	No
17	The surrounding ground surface was similarly colored. (There is snow as far as the eye can see.)	Yes	No
18	Dirt such as fingerprint adhered to the lens portion of the stereo camera.	Yes	No
19	Stable recognition was difficult because of reflection to the windshield glass.	Yes	No
20	The stereo camera was subject to impact, and the displacement or distortion occurred.	Yes	No
[2]: EyeSight temporary stop code [CE] (At this time, “EyeSight Disabled Temp Range” is displayed in the multi-information display.)			
1	Check that the current status applies to the condition that the temperature of the stereo camera becomes excessively high or low.		
1	The compartment temperature was high. (For example: The vehicle was left under the scorching sun.) Or the compartment temperature was low. (For example: The vehicle was left under the frigid environment.)	Yes	No
[3]: EyeSight temporary stop code [E5] (At this time, “EyeSight Disabled Check Manual” is displayed in the multi-information display.)			
1	Check that the current status applies to the condition that the vertical deviation occurs on the stereo camera optical axis.		
1	The vehicle was tilted excessively by the heavy load.	Yes	No
2	The vehicle drove on the steep uphill or steep downhill.	Yes	No
3	The stereo camera was subject to impact, and the displacement or distortion occurred.	Yes	No

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Item name		Yes/No	
[4]: EyeSight temporary stop code [33] (At this time, “EyeSight Disabled Check Manual” is displayed in the multi-information display.)			
1	Check that the current status applies to the condition that the engine speed drops to 300 rpm or below.	Yes	No
[5]: EyeSight temporary stop code [C0] (At this time, “EyeSight Disabled Check Manual” is displayed in the multi-information display.)			
1	Check that the current status applies to the condition that the pre-collision secondary brake operated three times between starting and stopping of engine.	Yes	No
[6]: EyeSight temporary stop code [A0] (At this time, “EyeSight Disabled Check Manual” is displayed in the multi-information display.)			
1	Check that the current status applies to the condition that the voltage dropped below 10 V immediately after the ignition ON.	Yes	No
[7]: EyeSight temporary stop code [A1] (At this time, “EyeSight Disabled Check Manual” is displayed in the multi-information display.)			
1	Check that the control module (CM) is currently being reprogrammed.	Yes	No

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## 2. LIST OF CONTENTS FOR CAMERA TEMPORARY STOP

Read the camera temporary stop count from Current Data Display & Save of Subaru Select Monitor, estimate the possible cause of the temporary stop according to the chart below. (After clearing the memory, the number of occurrences for each temporary stop is accumulated.)

Displayed item	Main causes	Possible conditions for temporary stop (including events occurring less frequently)
Camera temporary stop 0 count	Front of the camera is blocked by hand, dirty window glass	Backlight, dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, front of the camera is blocked by hand, bad weather (heavy rain, snowstorm, dense fog), unpatterned wall, water or snow raised by preceding vehicle
Camera temporary stop 1 count	Front of the camera is blocked by hand, dirty window glass	Backlight, dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, front of the camera is blocked by hand, bad weather (heavy rain, snowstorm, dense fog), water or snow raised by preceding vehicle, very dark and no obstacle around the vehicle, unpatterned wall, blanket of snow around the vehicle and no obstacle is found
Camera temporary stop 2 count	Fogged window glass, frost on the window glass	Dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, front of the camera is blocked by hand, bad weather (heavy rain, snowstorm, dense fog), unpatterned wall, water or snow raised by preceding vehicle
Camera temporary stop 3 count	Backlight	Backlight, dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, bad weather (heavy rain, snowstorm, dense fog), unpatterned wall, water or snow raised by preceding vehicle
Camera temporary stop 4 count	Water raised by preceding vehicle	Backlight, dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, front of the camera is blocked by hand, bad weather (heavy rain, snowstorm, dense fog), unpatterned wall, water or snow raised by preceding vehicle, use of the window washer
Camera temporary stop 5 count	Dirty window glass, fogged window glass, oil film on the window glass	Dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, bad weather (heavy rain, snowstorm, dense fog), water or snow raised by preceding vehicle
Camera temporary stop 6 count	Storm of rain	Dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, bad weather (heavy rain, snowstorm, dense fog), water or snow raised by preceding vehicle, use of the window washer
Camera temporary stop 7 count	Object on the dashboard reflected against the windshield glass	Object on the dashboard reflected against the windshield glass, snowstorm
Camera temporary stop 8 count	Dirty window glass, bad weather	Backlight, dirty window glass, fogged window glass, frost on the window glass, oil film on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens, deteriorated wiper, front of the camera is blocked by hand, object on the dashboard reflected against the windshield glass, bad weather (heavy rain, snowstorm, dense fog), unpatterned wall, water drop raised by preceding vehicle, steep slope, continuous sharp curve, banner, grass, preceding vehicle with large uneven surface (trailer, etc.), preceding vehicle driving in the night without illuminating the tail light, preceding vehicle with snow adhered, use of the window washer
Camera temporary stop 9 count	Not used	—
Camera temporary stop 10 count	Not used	—
Camera temporary stop 11 count	Not used	—

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Displayed item	Main causes	Possible conditions for temporary stop (including events occurring less frequently)
Camera temporary stop 12 count	Camera has been deformed by hitting it.	The stereo camera was subject to impact, and the displacement or distortion occurred.
Camera temporary stop 13 count	Not used	—
Camera temporary stop 14 count	Not used	—
Camera temporary stop 15 count	Not used	—
Camera temporary stop 16 count	Not used	—
Camera temporary stop 17 count	Not used	—
Camera temporary stop 18 count	Not used	—
Camera temporary stop 19 count	Not used	—
Camera temporary stop 20 count	Not used	—
Camera temporary stop 21 count	The vehicle is tilted excessively by the heavy load.	<ul style="list-style-type: none"> <li>• The vehicle is tilted excessively by the heavy load.</li> <li>• The vehicle drives on the steep uphill or steep downhill.</li> <li>• The stereo camera was subject to impact, and the displacement or distortion occurred.</li> </ul>
Camera temporary stop 22 count	Camera has been deformed by hitting it.	The stereo camera was subject to impact, and the displacement or distortion occurred.
Camera temporary stop 23 count	Camera has been deformed by hitting it.	The stereo camera was subject to impact, and the displacement or distortion occurred.
Camera temporary stop 24 count	Camera has been deformed by hitting it.	The stereo camera was subject to impact, and the displacement or distortion occurred.
Camera temporary stop 25 count	Camera has been deformed by hitting it.	The stereo camera was subject to impact, and the displacement or distortion occurred.
Camera temporary stop 26 count	Dirty window glass left for a long time	Dirty window glass, fogged window glass, frost on the window glass, raindrop adhering to the window glass, fingerprint adhering to the lens
Camera temporary stop 27 count	Not used	—
Camera temporary stop 28 count	Can't see anything in a complete darkness.	The vehicle drove in a complete darkness with the headlight turned off. Or, the camera was blinded when driving.
Camera temporary stop 29 count	Not used	—
Camera temporary stop 30 count	Not used	—
Camera temporary stop 31 count	In a high temperature of 70°C (158°F) or more or in a low temperature of -10°C (14°F) or less	—