

Technical Service Bulletin

SUBJECT: ERROR CODE CORRECTION USED DURING CAMERA AIMING ADJUSTMENTS-			No:	TSB-23-54-005
			DATE:	August 2023
S	MODEL: Outlander			
CIRCULATE TO:	[] GENERAL MANAGER	[X] PARTS MANAGER		[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY PROCESS	OR	[] SALES MANAGER

PURPOSE

This TSB provides correction of the error code list used with camera aiming adjustments in the applicable Service Manual sections:

• Driver Assistance System

AFFECTED VEHICLES

2022-2023 Outlander

AFFECTED SERVICE MANUAL

• 2022-2023 Outlander Service Manual

PROCEDURE

Please use the following chart as a guide to replace the indicated page (Attached sheet 1 (1 of 2) in the affected Service Manuals, Group 54, Cruise Control & Driver Assistance, Driver Assistance System, Driver Assistance System, Basic Inspection, Camera Aiming Adjustment, Work Procedure with the Attached sheet 1 (2 of 2).

Applicable manual	Pub.No.	Applicable title	Content
2022	MSCD-030B-2022	CRUISE CONTROL & DRIVER ASSISTANCE	Attached
OUTLANDER	(Volume 5)	DRIVER ASSISTANCE SYSTEM	sheet 1
Service manual		DRIVER ASSISTANCE SYSTEM	
		BASIC INSPECTION	
		CAMERA AIMING ADJUSTMENT	
		Work Procedure	
2023	MSCD-030B-2023	CRUISE CONTROL & DRIVER ASSISTANCE	
OUTLANDER		└ DRIVER ASSISTANCE SYSTEM	
Service manual		DRIVER ASSISTANCE SYSTEM	
		BASIC INSPECTION	
		└ CAMERA AIMING ADJUSTMENT	
		Work Procedure	

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DRIVER ASSISTANCE SYSTEM

Attached sheet 1 (1/2)

Displayed item	bnormally completed": Perform the following services. <incorrect> Possible cause</incorrect>	Service procedure
SUSPENSION	Temporary malfunction in internal processing of the front camera unit. Front camera unit malfunction.	
	 Front camera unit cannot detect the target A target is not-yet-placed. The position of the targets is not correct. The position of the front camera unit is not correct. Inappropriate work environment. Inappropriate vehicle condition. Input value is not correct against actual setting position. 	
Abnormally completed 7 8	 Roll angle is outside the threshold The position of the targets is not correct. The position of the front camera unit is not correct. happropriate work environment. Inabpropriate vehicle condition. Input value is not correct against actual setting position. 	Position the target appropriately again. Then perform the aiming again.
	Yaw/pitch angle is outside the threshold. The position of the targets is not correct. The position of the front camera unit is not correct. Inappropriate work environment. Inappropriate vehicle condition. Input value is not correct against actual setting position.	
	 Input value of aiming is invalid. Input value is not correct against actual setting position. 	Correct input value of aiming and perform camera aiming again.
	6 The size of target is different. (A numerical value input to M.U.TIII SE differs from detected size) 6 The position of the targets is not correct. 9 The position of the front camera unit is not correct. 9 Inappropriate work environment. 9 Inappropriate vehicle condition. 9 Input value is not correct against actual setting position	
	 The size of target is different. (A numerical value input to M.U.T.III SE differs from detected size) The position of the targets is not correct. The position of the front camera unit is not correct. Inappropriate work environment. Inappropriate vehicle condition. Input value is not correct against actual setting position. 	Position the target appropriately again. Then perform the aiming again.
	Yaw/pitch angle is outside the threshold. The position of the targets is not correct. The position of the funt camera unit is not correct. Inappropriate work environment. Inappropriate vehicle condition. Input value is not correct against actual setting position.	
	Yaw/pitch angle is outside the threshold. Yaw/pitch angle is outside the threshold.	Position the target appropriately again.
Abnormally completed	Detect several targets. The position of the targets is not correct. The position of the front camera unit is not correct. Inappropriate work environment. Inappropriate vehicle condition. Input value is not correct against actual setting position.	Then perform the ain ing again.
	11 Internal process malfunction	Then turn the ignition switch OFF_ON. Accurately set target and perform camera aiming again.

Displayed item		Possible cause	Service procedure	
SUSPENSION		Temporary malfunction in internal processing of the front camera unit.	Position the target appropriately again.	
		Front camera unit malfunction.	Then perform the aiming again.	
	0	Aiming completed (no error)	-	
	1	Aiming status determination (SPI) protocol version mismatch	 Turn the ignition switch to the ON from OFF. Accurately set target and perform camera aiming again. 	
	2	Header CRC abnormality in SPI message		
	3	Object CRC abnormality in SPI message	 If abnormally completed again after aiming, 	
	4	Abnormality in "CLB Stat Run Mode" due to "Calibration static"	replace front camera unit.	
	5	Aiming not completed within 5 seconds	Position the target appropriately again.	
	6	Failure to activate aiming mode	Then perform the aiming again.	
	7	Internal error during aiming	Then perform the anning again.	
	8	Bottom value threshold exceeded	Correct the input values of the parameters and carry out the aiming again.	
Abnormally completed	9	Aiming completion value is outside a certain range.	 Correct the input parameters and carry out the aiming again. Ensure that the target is correctly placed and the front camera unit is correctly installed, ther carry out the aiming again. 	
	18	 Target not detected The distance between the target and the camera input during the aiming differs more than 50 % of the actual distance. 	 Ensure that the front camera unit is correctly installed, then carry out the aiming again. Ensure that the hood is not open, then carry of the aiming again. Ensure that there is no obstruction on the windshield in front of the front camera unit, the carry out the aiming again. Brightly illuminate the targets, check that the targets are within the range of the front camer unit and that all targets are clearly visible, ther carry out the aiming again. Ensure that the distance from the vehicle to that target is correct, then carry out the aiming again. 	
	19	Aiming result exceeds tolerances in the roll direction.	 Check that the input parameters are correct, then carry out the aiming again. Ensure that the target is correctly placed and the front camera unit is correctly installed, then carry out the aiming again. Check that there is no reflection of strong light on the target and that there is no object around the target that could be mistaken for the target, then carry out the aiming again. 	
	20	Aiming result exceeds the tolerances in the yaw/pitch direction.		
	21	Input parameters were not read correctly.	Correct the input parameters, then carry out the aiming again.	
	22	Input parameters were not read correctly.		
	23	Target size is outside the recognizable range. (Target size is too small compared to the recognizable size.)	Position the target appropriately again. Then perform the aiming again.	
	24	Aiming result exceeds the tolerances in the yaw direction.		
-	25	Aiming result exceeds the tolerances in the pitch direction.		
	26	Too many targets	 Position the target appropriately again. Check that there is no reflection of strong light on the target and that there is no object aroun the target that could be mistaken for the target then carry out the aiming again. 	
	27	Malfunction of internal processes	 Turn the ignition switch to the ON from OFF. Accurately set target and perform camera aiming again. If abnormally completed again after aiming, replace front camera unit. 	