

Technical Information

FROM: Maserati TSO

TO: Maserati Network



PERSONAL SERVICE LAB

MASTERS OF CARE

CVPAM Surround View System Diagnosis B228600

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This bulletin provides updated information and instructions for diagnosing and correcting Surround View System faults caused by incorrect camera positioning or calibration failure.

MODELS INVOLVED: M182 Grecale, M189 GranTurismo and M190 GranCabrio (All MY).

CVPAM DTCs:

- **(\$A28600) B2286-00 Calibration Not Learned-Lost Calibration**

Customer Concern: Surround View System not working, hourglass present on the sides of the vehicle in the central display (ICS), no video shown by the four cameras.

Technical Cause:

One or more cameras may not be seated correctly in their housing, causing calibration failure.

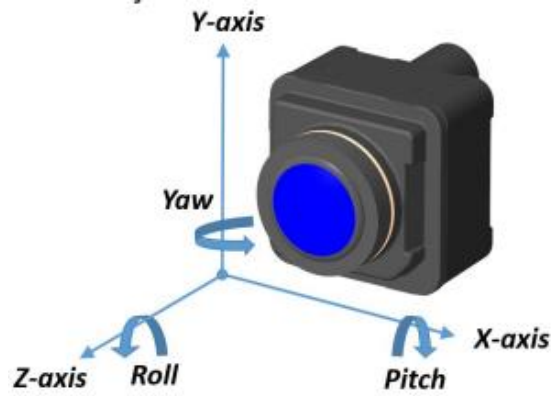
Service Procedure

- 1. Run Full Diagnostic Scan**
 - Use the EVO to perform a complete scan.
 - Include DTC codes and CVPAM parameters in the report.
- 2. Check Camera Angle Parameters**
 - Read these CVPAM parameters:
 - F300 – Rear Camera extrinsic parameter
 - F301 – Left Camera extrinsic parameter
 - F302 – Front Camera extrinsic parameter
 - F303 – Right Camera extrinsic parameter
 - **Compare values with the tables at the end of this bulletin (different tables for Grecale and GranTurismo/GranCabrio).**
 - Ensure values are within the allowed minimum and maximum tolerances.
- 3. Inspect Camera Mounting**
 - If any angle is out of tolerance:
 - Check camera housing for looseness or excessive clearance.
 - Inspect side flaps (front and rear cameras) for damage.
 - Verify all retaining elements are intact and cameras are firmly seated.
 - **Correct the camera position** to bring it within tolerance.
- 4. If Problem Persists**
 - If all cameras are correctly positioned but the fault remains, open a BOL for technical assistance.

Important Notes

- Correct positioning usually resolves the issue.
- Do not hesitate to contact Technical Service Operations for assistance.

Tolerance Tables



Grecale	Nominal	Minimum	Maximum		GranTurismo & GranCabrio	Nominal	Minimum	Maximum
Front Roll Angle [°]	0	-5	5		Front Roll Angle [°]	0	-5	5
Front Pitch Angle [°]	16.31	11.31	21.31		Front Pitch Angle [°]	26.43	21.43	31.43
Front Yaw Angle [°]	0	-5	5		Front Yaw Angle [°]	0	-5	5
Left Roll Angle [°]	-171.59	-176.59	-166.59		Left Roll Angle [°]	0	-5	5
Left Pitch Angle [°]	48.2	43.2	53.2		Left Pitch Angle [°]	50	45	55
Left Yaw Angle [°]	91.2	86.2	96.2		Left Yaw Angle [°]	90	85	95
Right Roll Angle [°]	171.02	166.02	176.02		Right Roll Angle [°]	0	-5	5
Right Pitch Angle [°]	48.2	43.2	53.2		Right Pitch Angle [°]	50	45	55
Right Yaw Angle [°]	-102.54	-107.54	-97.54		Right Yaw Angle [°]	-90	-95	-85
Rear Roll Angle [°]	0.02	-4.98	5.02		Rear Roll Angle [°]	0	-5	5
Rear Pitch Angle [°]	39.18	34.18	44.18		Rear Pitch Angle [°]	44	39	49
Rear Yaw Angle [°]	+180 -180	179 178 177 176 175	-179 -178 -177 -176 -175		Rear Yaw Angle [°]	+180 -180	179 178 177 176 175	-179 -178 -177 -176 -175