



SIB 66 29 19

2021-07-06

TOP VIEW CAMERA: IMAGE IS MISALIGNED

This Service Information Bulletin (Revision 4) replaces SI B66 29 19 **dated March 2021**.

What's New (Specific text highlighted):

- Procedure – Add path to reset camera calibration test plan

MODEL

F90 (M5 Sedan LCI)	F91 (M8 Convertible)	F92 (M8 Coupe)	F93 (M8 Gran Coupe)
F95 (X5 M Sports Activity Vehicle - SAV)	F96 (X6 M Sports Activity Coupe - SAC)	F97 (X3 M SAV)	F98 (X4 M SAC)
G01 (X3 SAV)	G02 (X4 SAC)	G05 (X5 SAV)	G06 (X6 SAC)
G07 (X7 SAV)	G12 (7 Series Sedan LCI)	G14 (8 Series Convertible)	G15 (8 Series Coupe)
G16 (8 Series Gran Coupe)	G20 (3 Series Sedan)	G22 (4 Series Coupe)	G23 (4 Series Convertible)
G29 (Z4 Roadster)	G30 (5 Series Sedan LCI)	G32 (640i xDrive Gran Turismo LCI)	

Affected vehicles are equipped with the following option code:

5DN – Parking Assistance System Plus

SITUATION

The top view image of the vehicle is misaligned when observed in the Control Information Display (CID). When the vehicle is parked in a parking spot with line markings, it is clearly noticed in the CID that the lines are not parallel to the side of the vehicle. This may be noticed on either the driver side, passenger side or both.



The arrow identifies the line which is shown as not parallel or straight alongside the vehicle.

CAUSE

Side view camera loose fitment in the exterior mirror bracket, causing changes to the top view image.

CORRECTION

Reposition the camera in the exterior side view mirror with felt tape and / or software update with ISTA 4.26.3x or higher. Target Integration level (I-level) of S15A/S18A-20-11-500 or higher.

Note: ISTA 4.26.3x was released on November 17 to participating pilot centers. General release is estimated for Nov. 24.

PROCEDURE

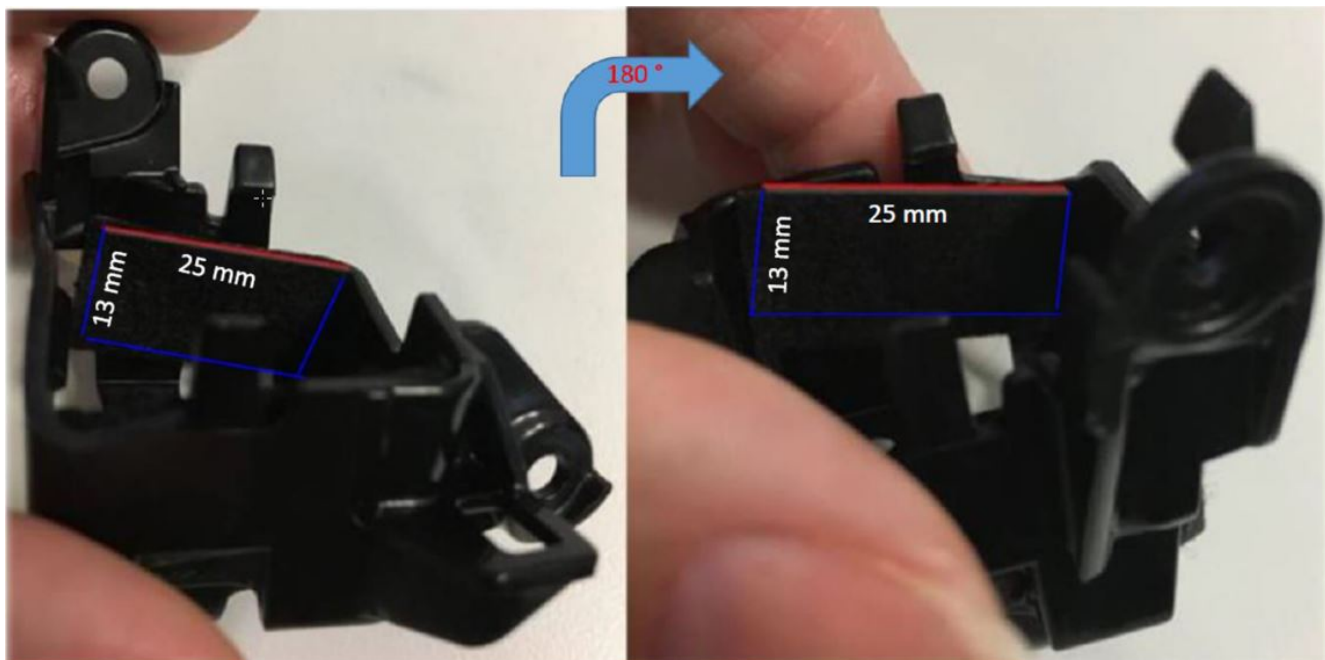
Depending on the production date of the vehicle being repaired, perform the corresponding procedure outlined below.

Repair steps for G01, G02, G05, G06, G07, F97, F98 produced up to February 1, 2020:

1. Remove the left and/or right top view camera following repair instructions 66 53 060.
2. Clean the area and allow area to dry.
3. Choose the appropriate thickness felt from the kit.
4. Cut 4 pieces of felt tape approx. 13mm x 25mm x 0.7mm in size.

Note: 2 pieces are needed per side view mirror

5. Apply the felt tape to each side of the holder for the camera as indicated below.



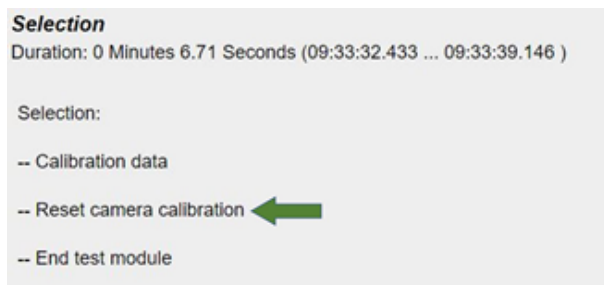
6. Reinstall the camera following the repair instructions 66 53 060.
7. Fold the mirrors in and out using the button on the driver's door switch block.
8. Perform the test plan to reset the camera calibration using ISTA 4.18 or higher as outlined below:
 - a. Vehicle management / Troubleshooting / Function structure / Driver Assistance / All-round vision camera



Following the numbered steps will aid in finding the test plan to reset camera data.

Note: There may be a short delay for the test plans to load after step #4.

b. Start test plan, then select continue.



When the test plan job selections are displayed as seen in this image, select the job labeled “Reset camera calibration”.

c. Complete the test plan following all recommendations.

9. Drive the vehicle to recalibrate the camera – slow speed in a parking lot with minimal steering input.

- Speed under 15 mph
- Clear lane markings and /or curbs
- If possible, drive straight ahead for at least 500 yards
- Recheck the camera view to confirm issue is resolved

Note: Multiple drive cycles maybe needed.

10. Determine the vehicle’s current I-level by using either AIR or ISPA NEXT application

11. If the vehicle’s current I-level is lower (older) than S15A-20-11-500 / S18A-20-11-500, program and code the vehicle using ISTA 4.26.3x or higher with I-level 20-11-500 or higher.

Repair steps for:

- F95, F96, F97, F98, G01, G02, G05, G06, G07 as of production date February 1, 2020
- F90, G30, G32 (LCI) as of production date July 1, 2020
- G12 (LCI) as of production date March 1, 2020
- F91, F92, F93, G14, G15, G16, G20, G22, G23, G29 as of series launch

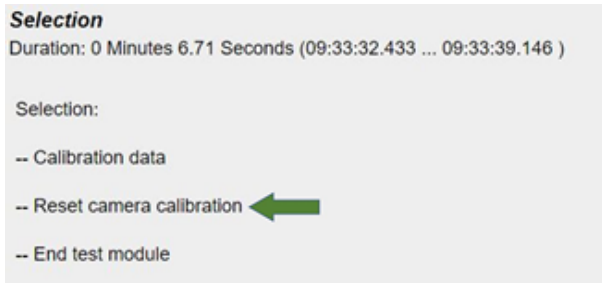
- Fold the mirrors in and out using the button on the driver’s door switch block.
- Perform the test plan to reset the camera calibration using ISTA 4.18 or higher as outlined below:
 - Vehicle management / Troubleshooting / Function structure / Driver Assistance / All-round vision camera



Following the numbered steps will aid in finding the test plan to reset camera data.

Note: There may be a short delay for the test plans (step #5 option) to load after step #4.

- b. Start test plan, then select continue.



When the test plan job selections are displayed as seen in this image, select the job labeled “Reset camera calibration”.

- c. Complete the test plan following all recommendations.

3. Drive the vehicle to recalibrate the camera – slow speed in a parking lot with minimal steering input.

- a. Speed under 15 mph
- b. Clear lane markings and /or curbs
- c. Drive straight ahead for at least 500 yards
- d. Recheck the camera view to confirm issue is resolved

Note: Multiple drive cycles maybe needed

4. Determine the vehicle’s current I-level by using either AIR or ISPA NEXT application.
5. If the vehicle’s current I-level is lower (older) than S15A-20-11-500 / S18A-20-11-500, program and code the vehicle using ISTA 4.26.3x or higher with I-level 20-11-500 or higher.

Note: ISTA 4.26.3x is expected to be released on November 24.

6. Reassess the vehicle.

Always connect a BMW-approved battery charger/power supply (SI [B04 23 10](#)) when performing programming.

For information on programming and coding with ISTA, refer to CenterNet / TIS / Technical Documentation / Programming and Diagnostics / Programming Documentation.

PARTS INFORMATION

Part Number	Description	Quantity
51 45 2 353 024	Set felt strip self-adhesive	Sublet as needed

WARRANTY INFORMATION

During this workshop visit, the affected vehicle may also show one or more programming and encoding Technical Campaign repairs open, the programming and encoding procedure may only be invoiced one time.

If you have this open campaign situation and on a vehicle that also needs to have its exterior side view mirror camera(s) repositioned, after performing the repositioning repair procedure:

Update the vehicle to the current available I-level by performing and submitting for one of the open Technical Campaigns instead.

Please be sure to also perform any additional work (before and after) the campaign repairs require and/or close the remaining open programming and encoding Technical Campaign repairs as outlined in the corresponding Service Information Bulletin.

Based on the above, the exterior side view mirror camera repositioning **repair procedure below that applies** is covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

Defect Code:	6653064000	Surround view camera, TRVC (Top View camera) in outside rearview mirror poorly adjusted / outside of tolerance
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Repair performed in conjunction with performing a programming and encoding Technical Campaign repair(s) on the vehicle

Labor Operation	Description	Labor Allowance
66 53 560	Removing and installing left or right top view camera	Refer to AIR
Or:		
66 53 561	Removing and installing both top view cameras	Refer to AIR

Or, the:

Repair is performed on a vehicle with no open programming and encoding Technical Campaign repair(s)

Labor Operation	Description	Labor Allowance
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		
00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		
61 21 528	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	Refer to AIR
And:		
66 53 560	Removing and installing left or right top view camera	Refer to AIR
Or:		
66 53 561	Removing and installing both top view cameras	Refer to AIR
And		
61 00 730	Programming/encoding control unit(s)	Refer to AIR

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006.

Refer to AIR for the corresponding flat rate unit (FRU) allowances.

And, as needed:

Sublet – Bulk Materials (RO and Claim Comments Required)

Sublet Code 4	See the sublet reimbursement calculations below	Reimbursement for the repair-related bulk materials (Do not use the BMW part number for claim submission)
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Sublet reimbursement calculation for claiming the applicable repair-related bulk materials (BMW part number) is at the dealer net price amount for the quantity used plus your center's handling.

Enter this material cost in sublet and itemize the amount on the repair order and in claim comment section.

Programming and Encoding - Vehicle Control Units (RO and Claim Comments Required)

The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software I-level. If one or more control module failures occur during this programming procedure:

- Please claim this consequential control module-related repair work (including the primary IRAP Control Unit Recovery procedure as required, refer to the SIB in AIR) under the defect code listed in this bulletin with the applicable AIR labor operations.

Please explain this additional work (The why and what) on the repair order and in the claim comments section

For control module failures that occurred prior to performing this programming procedure:

- When covered under an applicable limited warranty, claim the applicable test plan and the corresponding control module-related repair work using the applicable defect code and labor operations in AIR (including diagnosis with separate punch times).

As applicable to your center, please refer to **SI B01 01 20** or **B01 07 20** for claiming your diagnosis work time, job/repair work time (WT), WT and the repair-related explanation procedures.

QUESTIONS REGARDING THIS BULLETIN

Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Submit an IDS ticket to the Warranty Department or use the chat available in the Warranty Documentation Portal
Parts inquiries	Submit an IDS ticket to the Parts Department