

**SUBJECT****One or Both Headlights Are Aimed Downwards****MODEL**

F15 (X5)

F32 (4 Series Coupe)

Produced from July 01, 2013 to October 31, 2013

With option 0524 (Adaptive Headlights) and 0552 (Adaptive LED headlights)

SITUATION

The customer may experience one or more of the following complaints:

- One or both headlights are aimed significantly too low (jammed lower limit).
- No reference run is visible on the affected headlight when the ignition is turned on and the light switch is in the auto position.
- No CCM (Check Control Message) is displayed when a headlight is faulty.

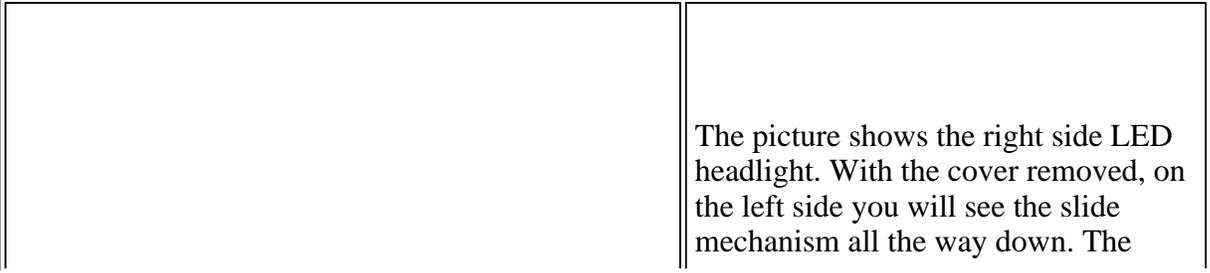
CAUSE

- TMS-3 (Headlight driver module AHL) coding error
- Defective mechanism inside the headlight

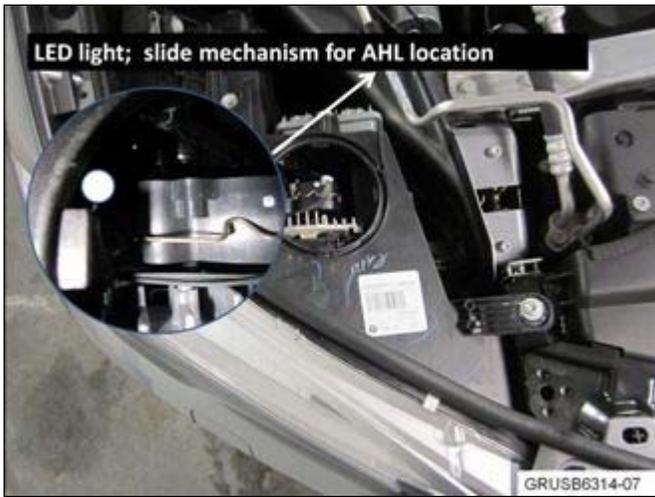
PROCEDURE

1. Program and code the vehicle with ISTA/P 2.51.3 if all of the conditions below are met:
 - The customer experiences one of the complaints as mentioned above and the **problem is not currently present**.
 - All lights function correctly, and currently **no stored faults are present**.

Proceed to step 2 **only if the headlight is aimed down due to a jammed mechanism**.
2. Remove the inspection cover on top of the headlight housing.
3. Locate the driving mechanism for the LED light or the AHL for the xenon headlight, as shown in the pictures below:



The picture shows the right side LED headlight. With the cover removed, on the left side you will see the slide mechanism all the way down. The



magnification in the picture highlights the approximate location.

For the left side headlight, the location is on the right side.

Note: After repairs, make sure the cover is installed and tight to avoid water leaking or moisture entering the headlight.



The picture is for right xenon headlight. With the cover removed, you will see the actuate motor.
Note: Make sure the cover is installed and tight to avoid water leaking or moisture entering the headlight.

4. Set the light switch to the auto position.
5. Have someone turn the ignition on. At the same time, move the mechanism (highlighted in the pictures above) to free it with a long screwdriver.
6. Perform the same procedure on the other headlight, if needed.
7. After completing the self test, check faults and recheck operation.
8. Program the vehicle with ISTA/P 2.5.1.3 or higher. (Make sure the TMS-3 L and TMS-3 R are in the measure plan for coding.)

The new I-level after fixing the problem should be:

F15: I-level F025-13-11-504 or higher

F32: I-level F020-13-11-504 or higher

9. If the headlight is still aimed down and the above procedure did not work, the headlight light must be replaced as needed. For LED lights, follow the outlined procedure in [SI B63 01 14](#).

PARTS INFORMATION

Part Number	Description	Quantity
Refer to ETK	AHL - xenon headlight	1/Side
Refer to ETK	Adaptive LED headlight	1/Side

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty.

A. Procedure Step 1 (AHL Programming/Encoding)

Defect Code:	63 12 26 12 00	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults)
and		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD2 as “Charging battery”)
and		
61 00 730	Refer to KSD2	Programming/encoding control unit(s)

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

If control module(s) fail to reprogram or initializations are required, the additional work must be claimed using separate labor operations found in KSD2 under the defect code listed above.

Or

B. Procedure Steps 2 - 8 (Repositioning Slide Mechanism and AHL Programming/Encoding)

Defect Code:	63 12 06 59 00	
Labor Operation:	Labor Allowance:	Description:
63 00 009	3 FRU	Removing both inspection covers to inspection the slide mechanisms (Main work)
or		
63 00 009	2 FRU	Removing both inspection covers to inspection the slide mechanisms (Plus work – Vehicle already in the workshop)

And, as applicable

Labor Operation:	Labor Allowance:	Description:
63 99 000	1 FRU	Reposition the slide mechanism on one side
or		
63 99 000	2 FRU	Reposition the slide mechanisms on both sides

Even though work time labor operation codes 63 00 009 ends in “009,” and 63 99 000 ends in “000,” they are not considered a Main labor operations. Also, since the “work time” FRU allowances to be claimed are specified, separate punch times are not required.

and, as necessary

Labor Operation:	Labor Allowance:	Description:
00 00 556	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults)
and		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply(indicated in KSD2 as “Charging battery”)
and		
61 00 730	Refer to KSD2	Programming/encoding control unit(s)

If control module(s) fail to reprogram or initializations are required, the additional work must be claimed using separate labor operations found in KSD2 under the defect code listed above.

Procedure Step 9 (If Necessary, After Performing Procedure Steps 2 to 8)

Labor Operation:	Labor Allowance:	Description:
63 12 528	Refer to KSD2	Replacing left Adaptive Headlight (Option code SA0524)
or		
63 12 530	Refer to KSD2	Replacing right Adaptive Headlight (Option code SA0524)
or		
63 12 830	Refer to KSD2	Replacing both Adaptive Headlights (Option code SA0524)
or		
Labor Operation:	Labor Allowance:	Description:
63 12 641	Refer to KSD2	Replacing left LED Adaptive Headlight (Option code SA0552)
or		

63 12 644	Refer to KSD2	Replacing right LED Adaptive Headlight (Option code SA0552)
or		
63 12 647	Refer to KSD2	Replacing both LED Adaptive Headlights (Option code SA0552)

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the “Search” button, and then enter the applicable flat rate labor operation in the FR code field.

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