

**SUBJECT****One or Both Xenon Headlights Aiming Downwards****MODEL**

E90 (3 Series Sedan)

E91 (3 Series Sports Wagon)

Produced from August 17, 2008 to June 29, 2012

E92 (3 Series Coupe)

Produced from March 2010 to June 2013

E93 (3 Series Convertible)

Produced from March 2010 to October 2013

With option 524 (Adaptive Headlights)

SITUATION

Both xenon headlight lenses are aiming downwards;
or
One xenon headlight lens is aiming downwards.
There is **NO** related CCM (Check Control Message).

CAUSE**Both sides are aiming downwards:**

- The most likely cause is a faulty or disconnected rear height sensor.

In very extreme cases due to poor road conditions, both headlight assemblies could have the vertical aim ball socket adjuster disconnected, as noted below.

Only one side is aiming downwards:

- The cause could be a “disconnected” vertical aim ball socket adjuster, resulting from excessive road

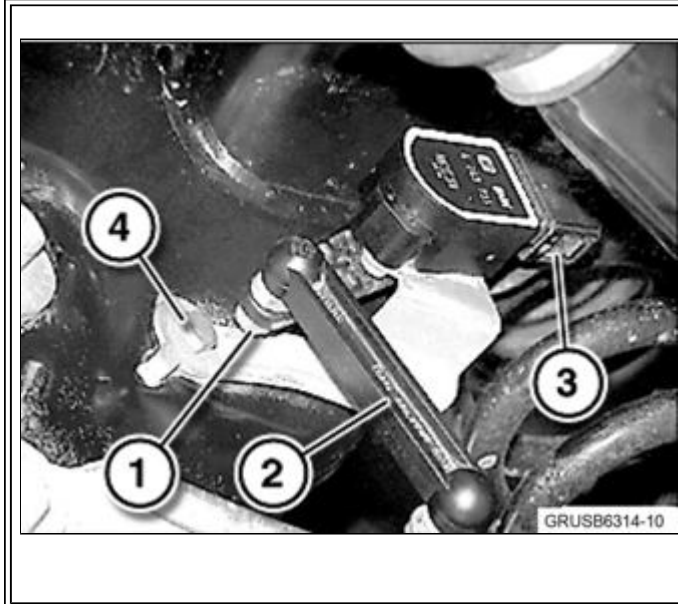
vibration or sharp impacts (pot holes) through the suspension to the headlight assembly.

Important Note: Follow the procedure outlined in this bulletin first; replacing headlight assemblies for a vertical aim ball socket adjuster issue is an excessive repair.

PROCEDURE

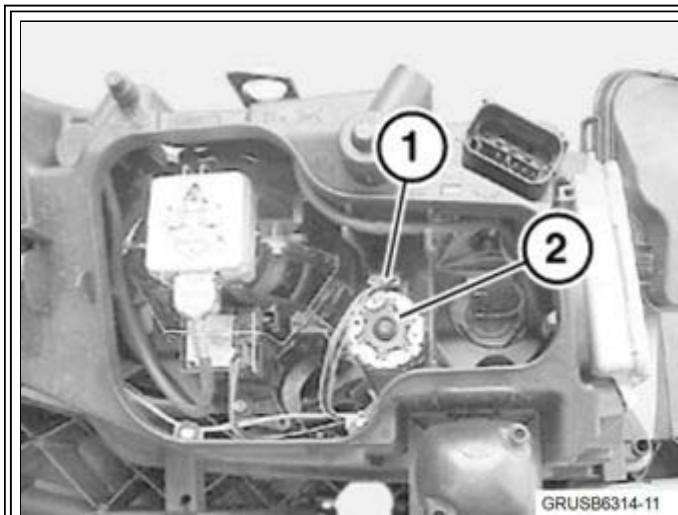
If both headlights are aiming downwards, perform steps 1 and 2.

If only one side is aiming downwards or both are aiming downwards, and steps 1 and 2 do not confirm a problem with the rear height sensor, proceed to step 3.



1. Inspect the rear height sensor for the correct position. Check if the bolt (4) and bracket (1) are installed correctly and check the connector (3) for any damage or looseness.
2. If no visible problem is found, connect the vehicle to ISTA and check for faults related to the rear height sensor. Complete the test plan for the fault and follow the test plan recommendation. For more information, refer to REP 3714512, "Replacing rear ride height sensor."

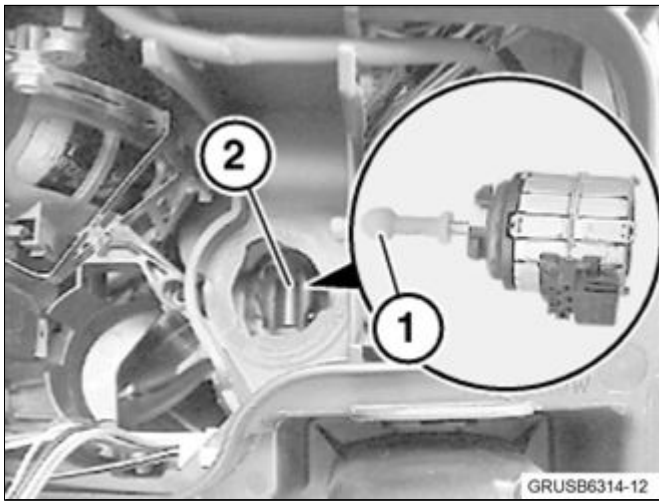
In most cases, the root cause is the ball socket separating from the bracket in the vertical aim adjuster mechanism inside the headlight assembly.



3. Remove the rear cover from the headlight and disconnect the connector (1). For more repair information, refer to REP 6716011, "Removing and installing/replacing left vertical aim adjuster (Xenon headlight)."
4. Twist the vertical aim adjuster (2) to remove it.

Note: Some headlight vertical aim adjusters and the covers are held in place with screws.

5. If the ball (1) is disconnected from the bracket (2), reconnect by pushing the ball back into the



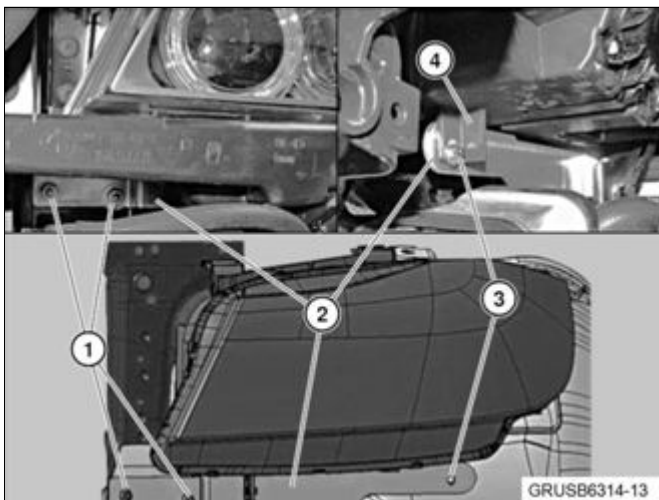
bracket. Make sure the other 2 pivots are also in place.

6. Make sure that ball stays in the bracket after the repair.

If the inside of the headlight is broken and the repair procedure outlined above cannot be performed, replace the headlight.

E90 and E91 vehicles (after performing the first headlight assembly repair)

The following additional support bracket must also be installed.



Remove the front bumper and install an additional bracket for the left and right Xenon headlights.

Remove and dispose of the plastic holder.

Installation sequence for the additional bracket:

- Install the additional bracket (2) as shown.
- Tighten the nut (1) to tightening torque 8Nm.
- Screw on the additional bracket (2) with the holder (4).
- Reinstall the front bumper.

For more repair information refer to REP 6312... "Installing additional bracket for left or right xenon headlight."

PARTS INFORMATION

E90 and E91 repair kit (brackets, bolts and nuts)

Part Number	Description	Quantity
63 12 7 316 675	Left support	1
63 12 7 316 676	Right support	1

07 12 9 905 120	ISA screw	4
07 11 9 905 710	Hex nut	4

WARRANTY INFORMATION**Steps 1 and 2**

If the ISTA diagnostics and related test plans or performing other troubleshooting procedures results in eligible and covered work, claim this work with the applicable defect code and/or labor operations listed in KSD2.

or

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

Steps 2 through 5

Defect Code:	67 16 02 12 00
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Repairing Left Side

Labor Operation:	Labor Allowance:	Description:
67 16 011	Refer to KSD2	Removing and installing or replacing left headlight vertical aim control (includes aiming headlights)

Labor operation code 67 16 011 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 67 16 512 instead, or if the headlight assembly is removed to perform another repair, then use labor operation 67 16 513.

or

Repairing Right Side

Labor Operation:	Labor Allowance:	Description:
67 16 016	Refer to KSD2	Removing and installing or replacing right headlight vertical aim control (includes aiming headlights)

Labor operation code 67 16 016 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 67 16 517 instead, or if the headlight assembly is removed to perform another repair, then use labor operation 67 16 518.

Additional Work: E90 and E91

Labor Operation:	Labor Allowance:	Description:
51 11 656	Refer to KSD2	Removing and installing front bumper panel
and, if applicable		

61 67 800	Refer to KSD2	Additional work for headlight cleaners (when equipped)
and, if applicable		
66 20 610	Refer to KSD2	Additional work for Park Distance Control (when equipped)
and		
67 99 000	1 FRU	Work time to install the bracket on the affected side

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